

The diagram illustrates a network architecture for integrating IP and PSTN services. At the top, a Management System 250 is connected to GUI Tools 255 and a Database Server 240. The Database Server 240 is also connected to a Provisioning System 260, which in turn connects to GUI Tools 265. A Network Manager 270 is connected to a SQL database 275. The central IP network 215 is connected to the Management System 250, Database Server 240, Provisioning System 260, Gateway Server (NY) 210, Gateway Server (LA) 220, and a License Server 280. The Gateway Server (NY) 210 is connected to a PSTN 205, which is further connected to a PBX and an Autodialer. The PBX is connected to a Speaker Phone and a 1 Call device. The Autodialer is connected to a 2 Call device and a pre-paid device. The Gateway Server (LA) 220 is connected to an optional PSTN 205, which is further connected to two end-user devices 291 and 292. An IP Phone 293 is also connected to the IP network 215.

9906-81.vsd/2

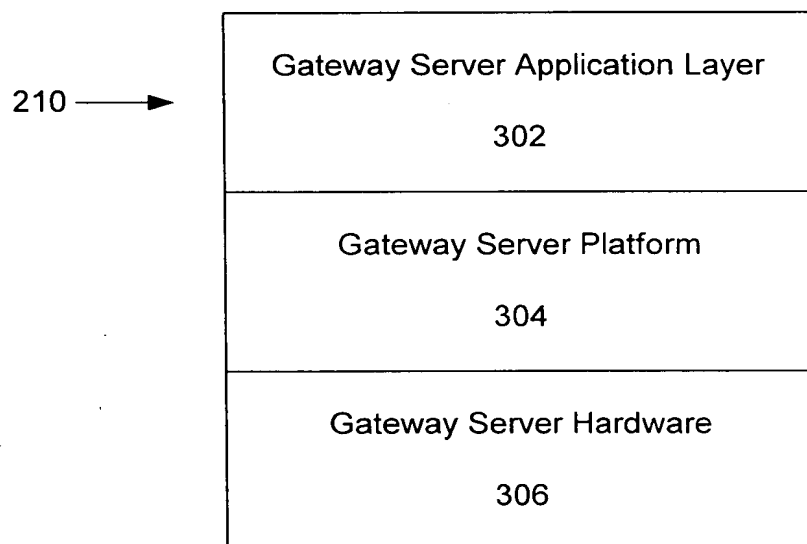
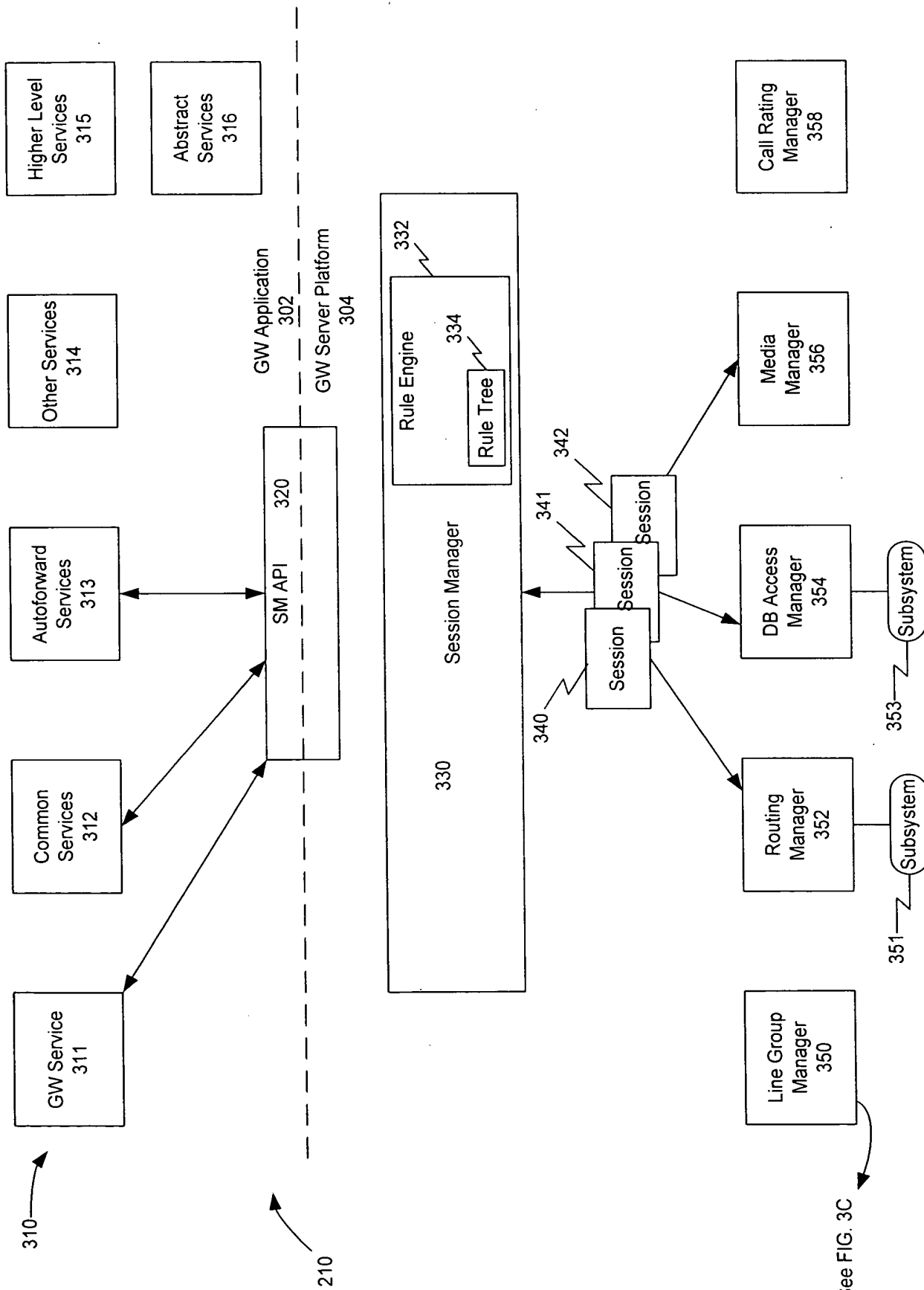


FIG. 3A



See FIG. 3C

FIG. 3B

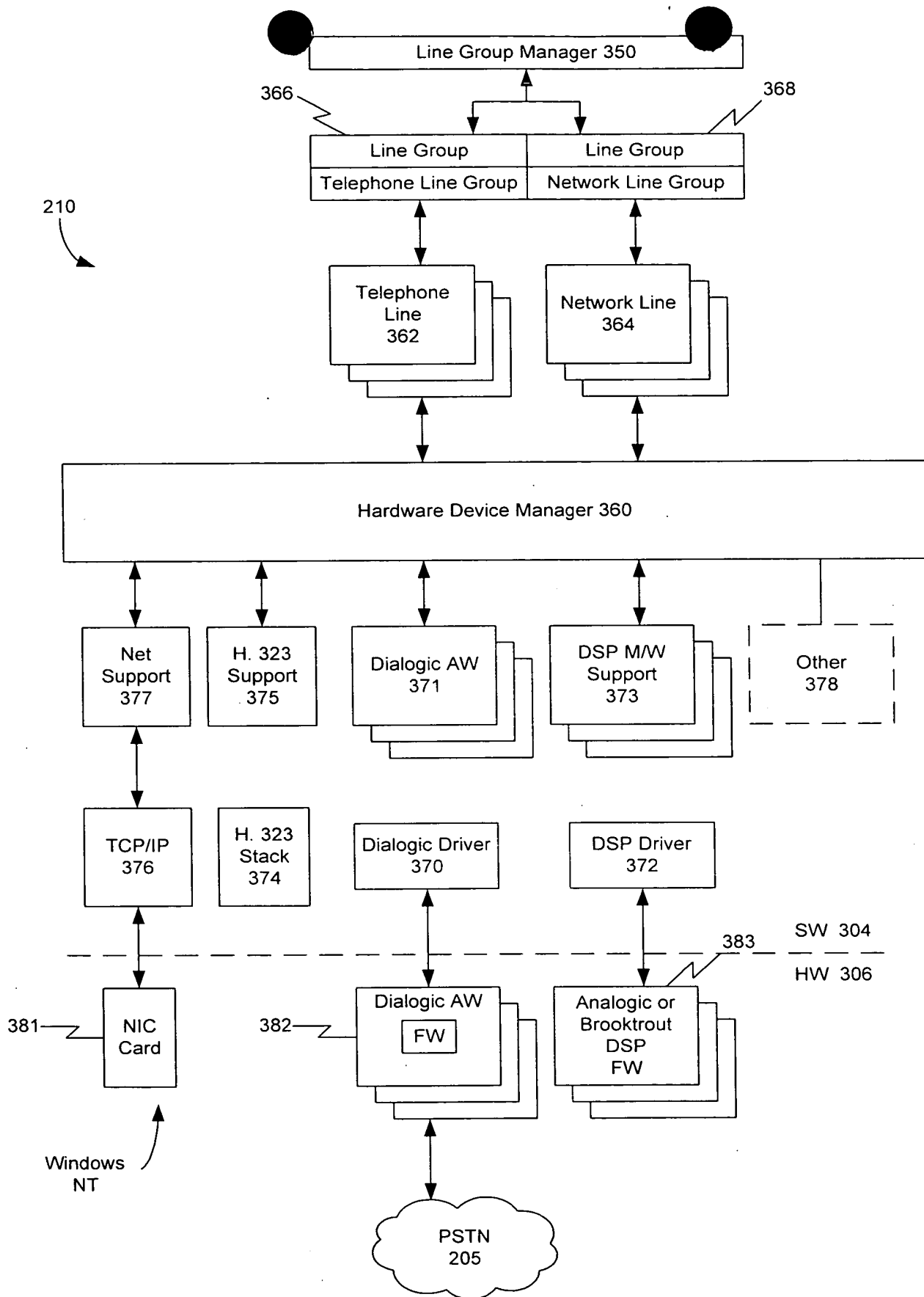


FIG. 3C

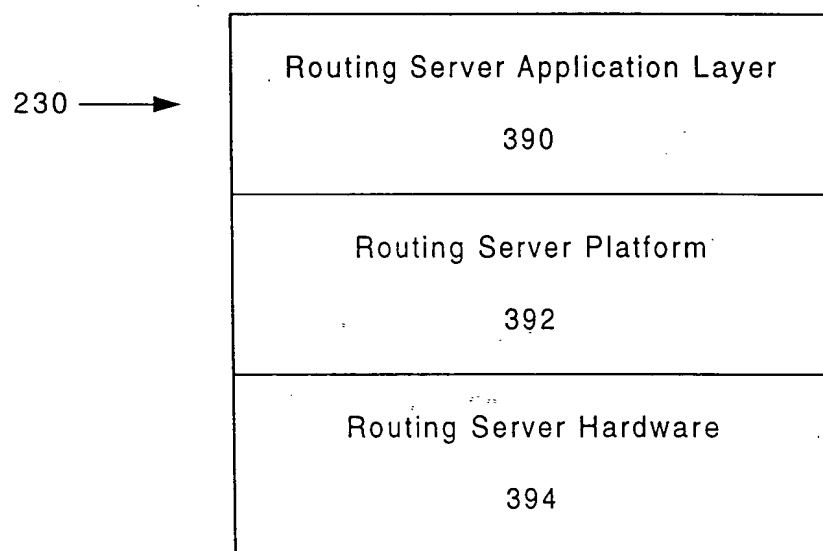


FIG. 3D

Figure 2 is a block diagram illustrating a multi-database system architecture. The system is divided into two main sections by a dashed line labeled "Firewall (optional)".

Top Section (Client/Service Layer):

- DB Access Manager 354:** A central management component at the top.
- Services:** Below the DB Access Manager are three service boxes: **CDR Service**, **Event Service**, and **User Service**.
- Multi-DB Client 430:** A central client component that receives input from the three services and distributes it to the database clients.
- CDR Server:** A database cylinder icon connected to the CDR Service.

Bottom Section (Database Layer):

- DB Clients:** Three boxes labeled **DB Client** (442, 444, 446) are positioned above the firewall.
- DB Client Servers:** Three boxes labeled **DB Client Server** (452, 454, 456) are positioned below the firewall.
- Database:** A database cylinder icon (462) is connected to the first DB Client Server (452).

Connections and Data Flow:

- Double-headed arrows connect the DB Access Manager (354) to each of the three services (CDR, Event, User).
- Single-headed arrows point from each service to the Multi-DB Client (430).
- Single-headed arrows point from the Multi-DB Client (430) to each of the three DB Clients (442, 444, 446).
- Double-headed arrows connect each DB Client (442, 444, 446) to its corresponding DB Client Server (452, 454, 456) across the firewall.
- Single-headed arrows point from each DB Client Server (452, 454, 456) to its corresponding database (462).

FIG. 4

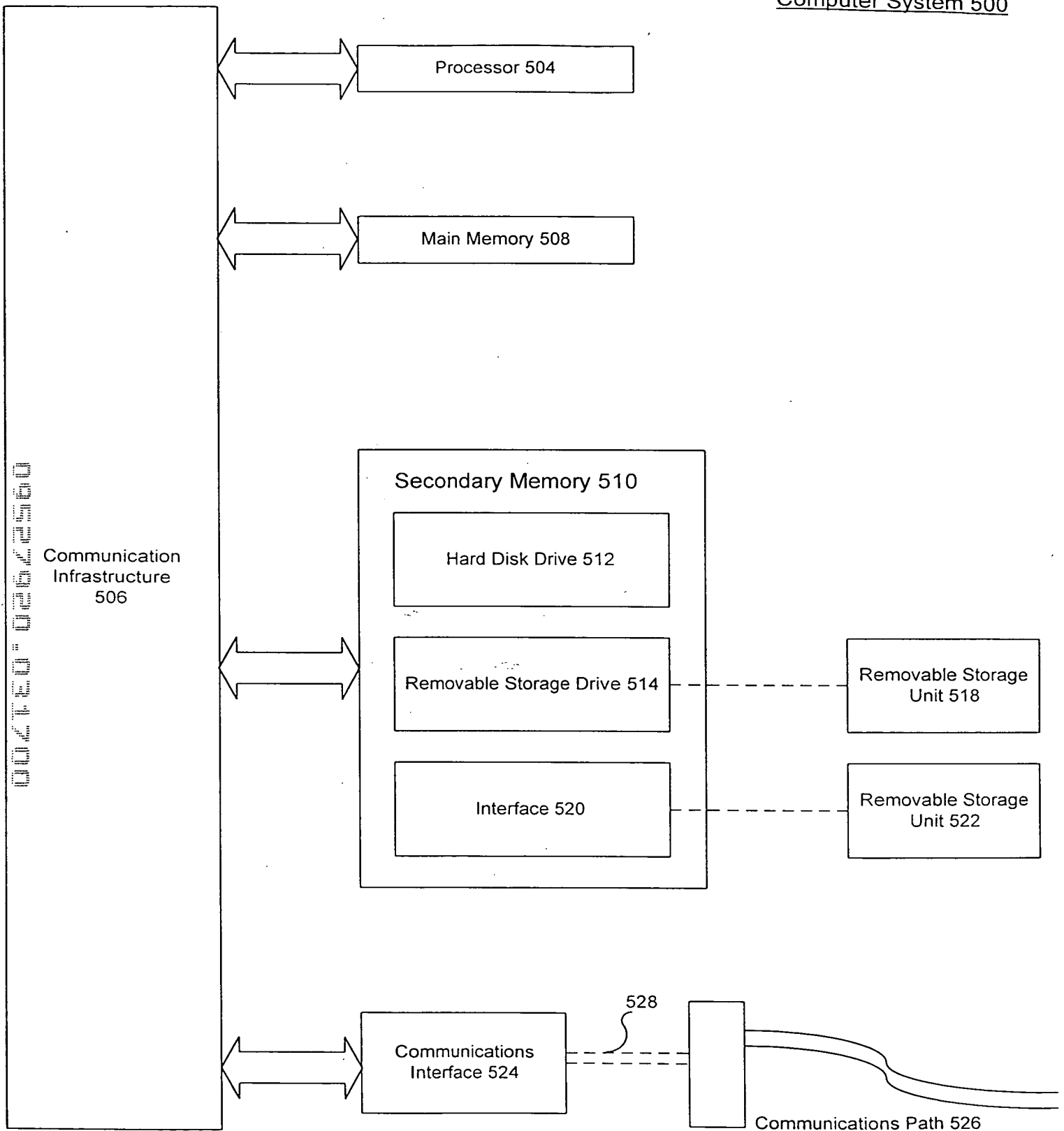


FIG. 5

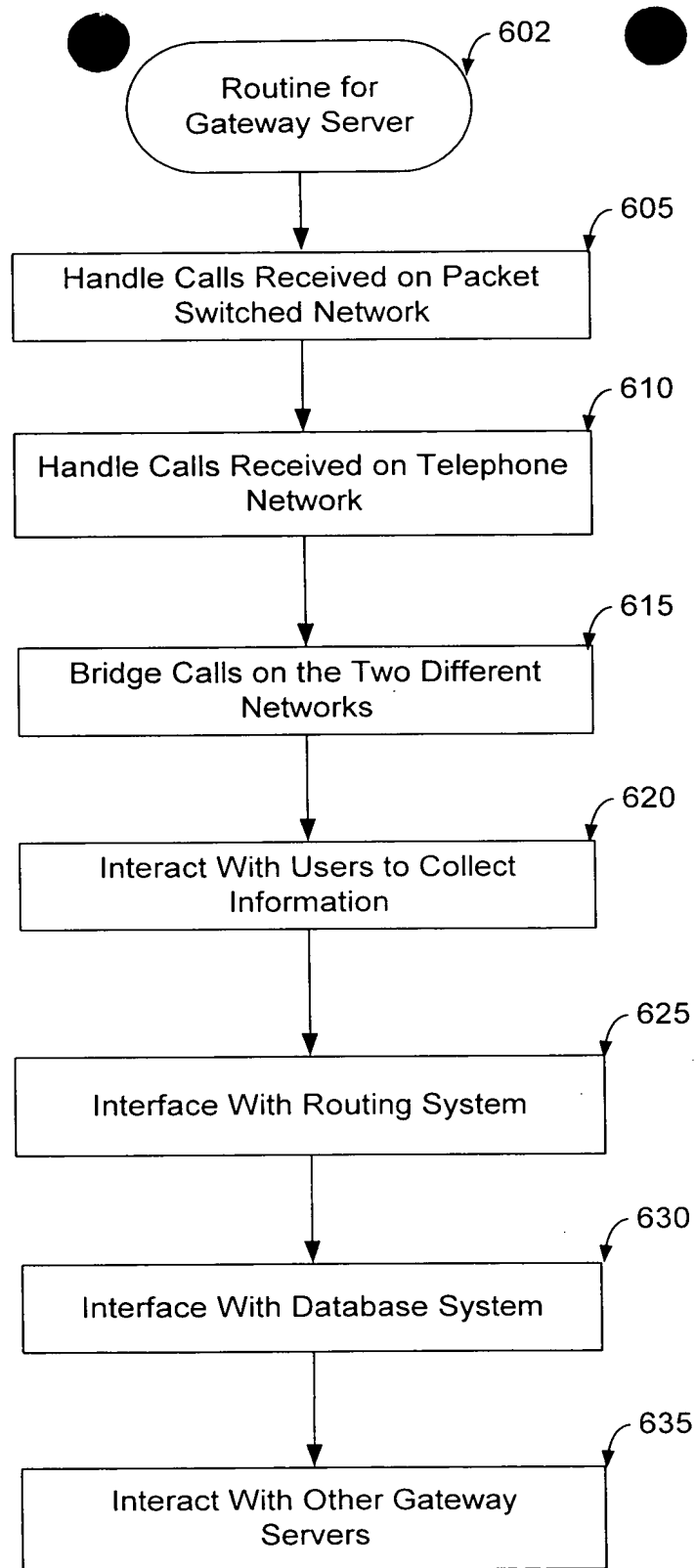


FIG. 6A

600

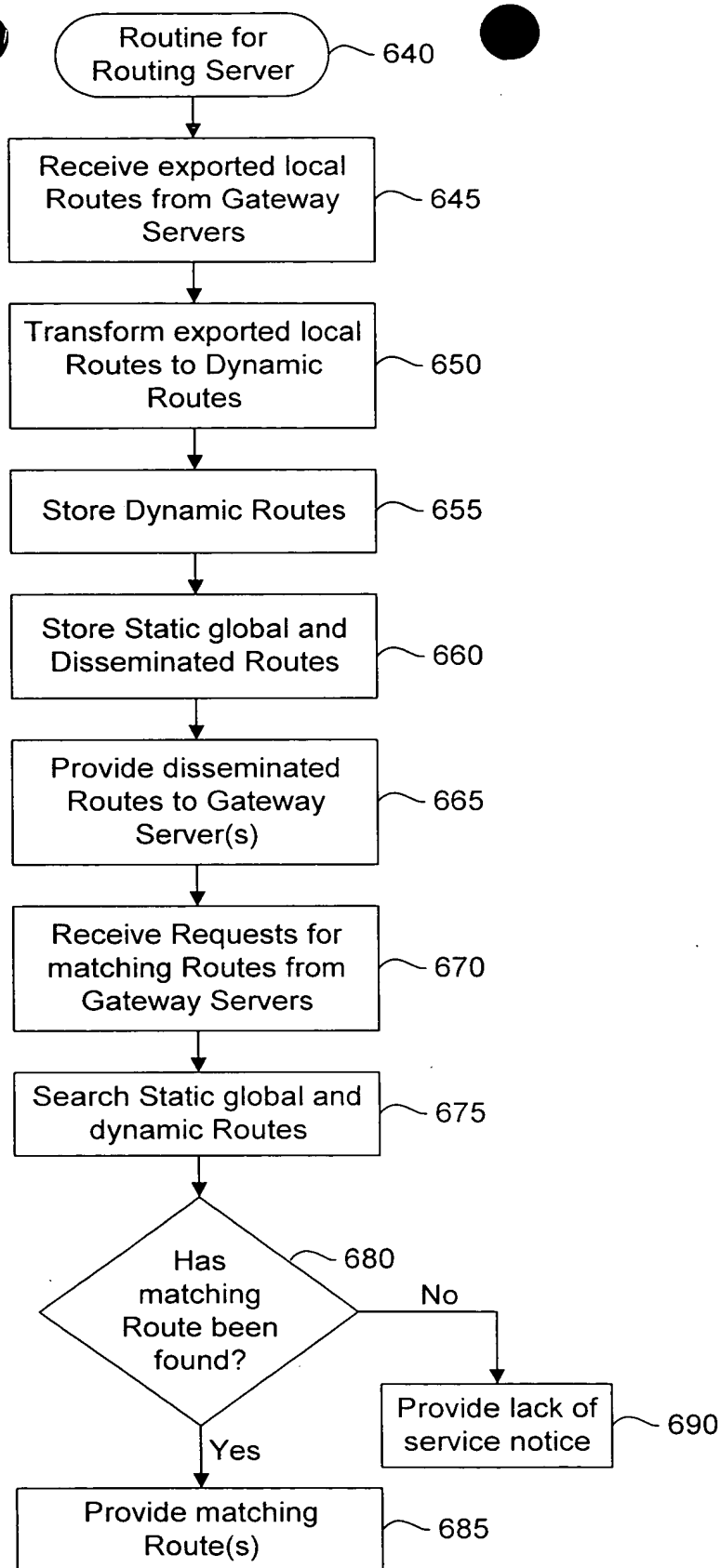


FIG. 6B

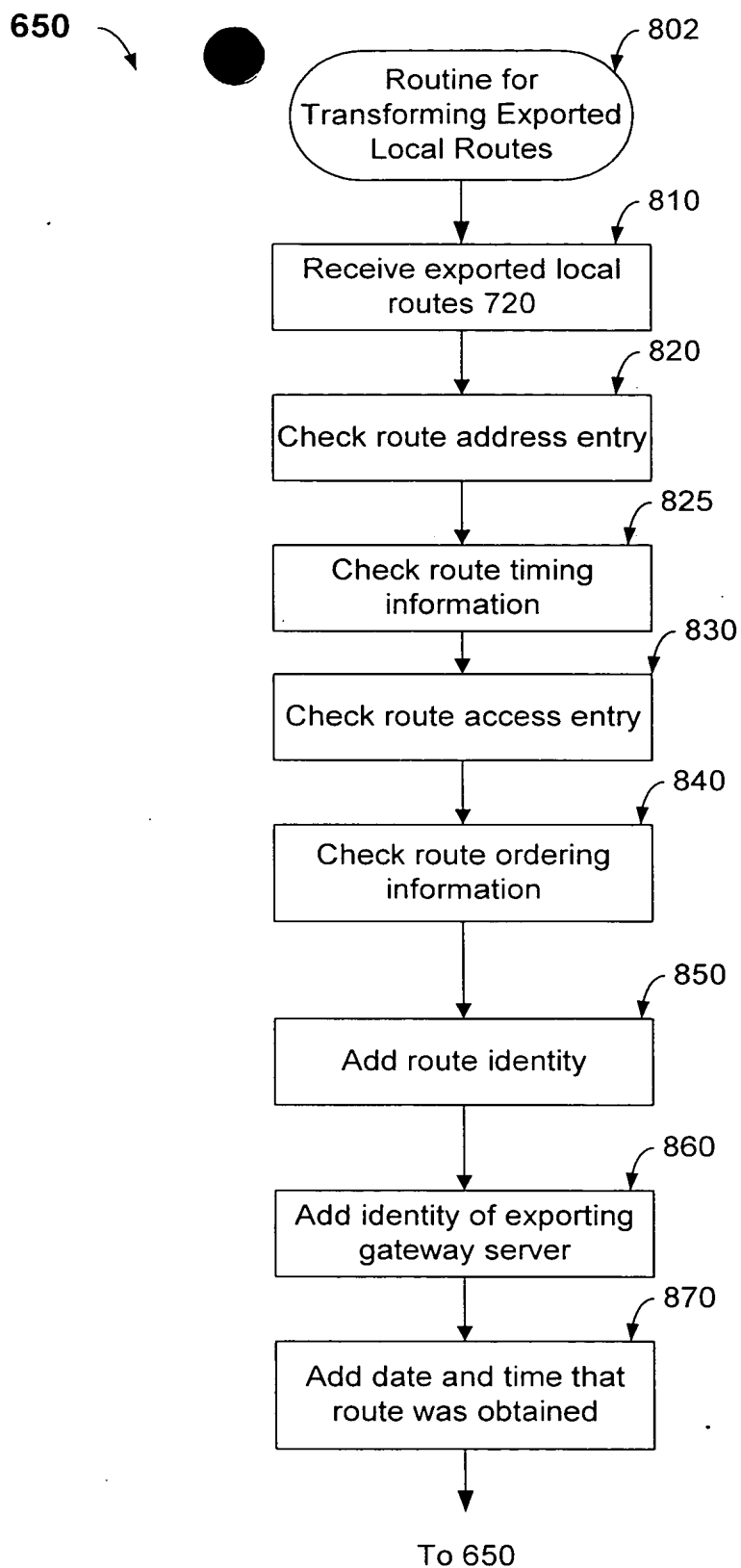
[illegible]

FIG. 8

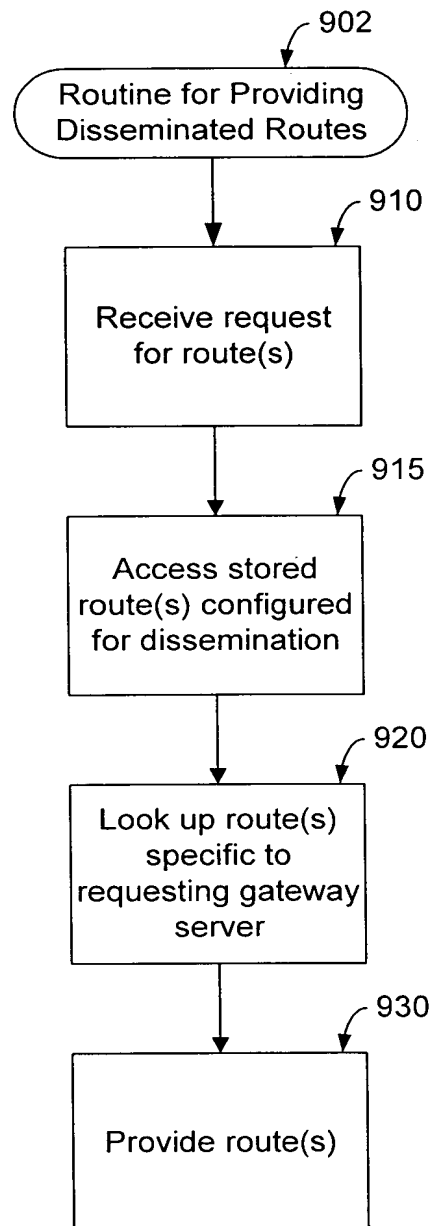


FIG. 9

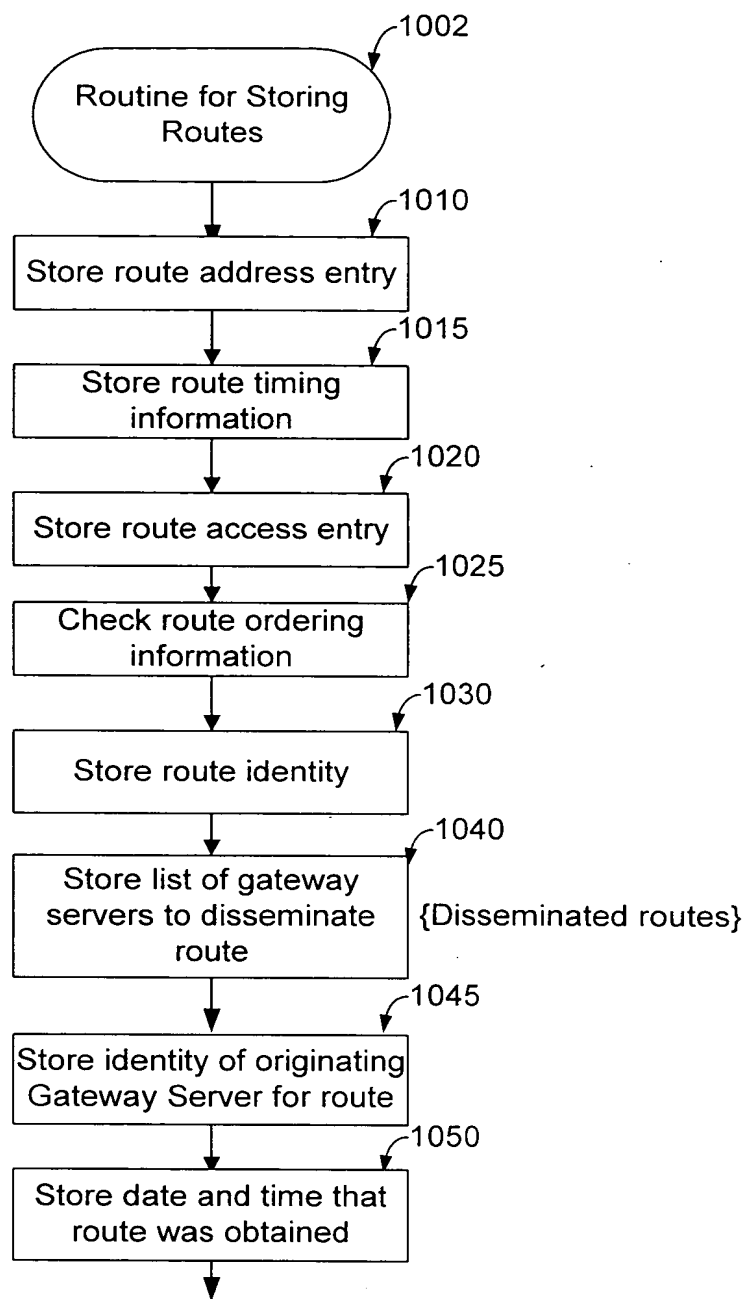


FIG. 10

9907-27.vsd/7

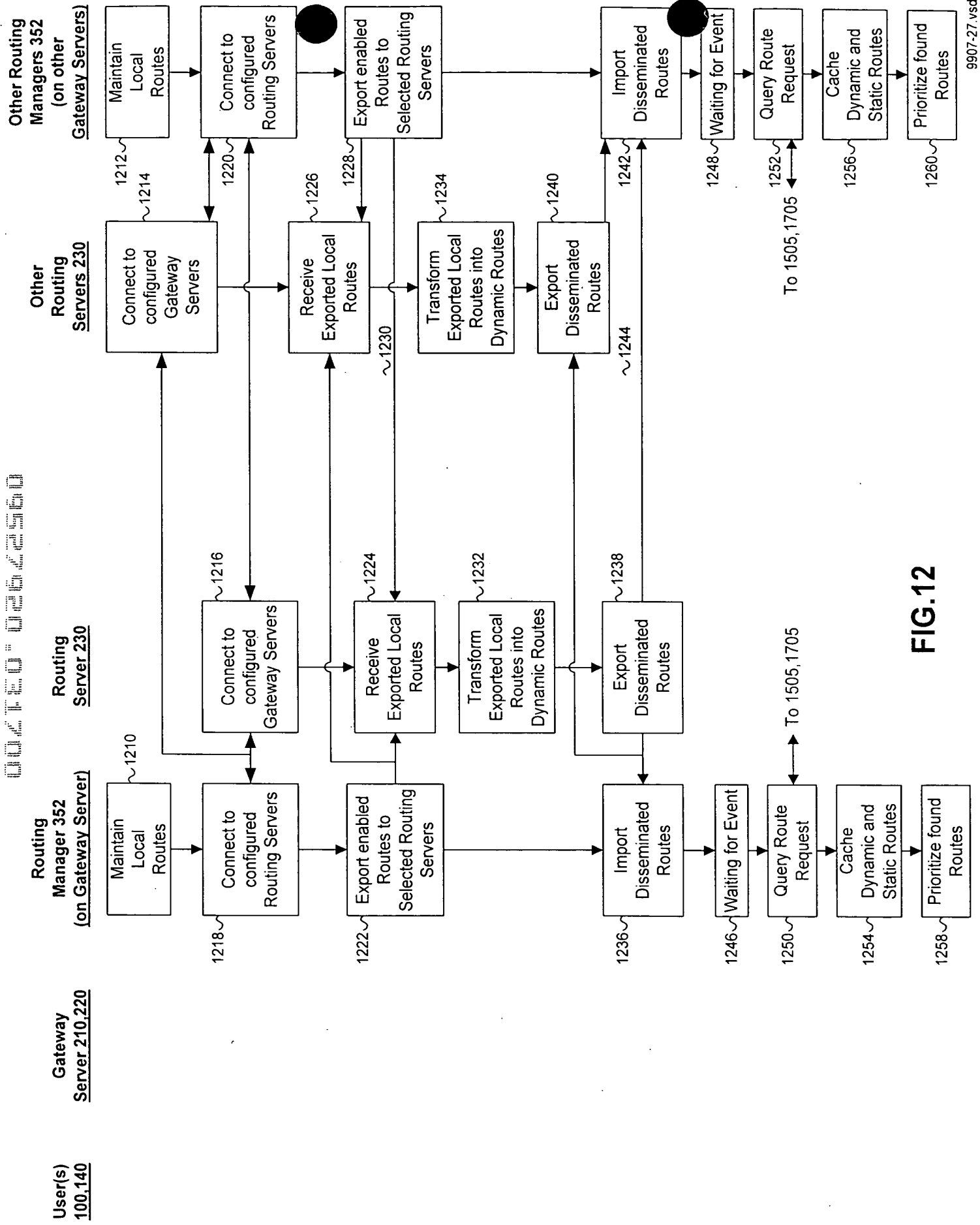


FIG.12

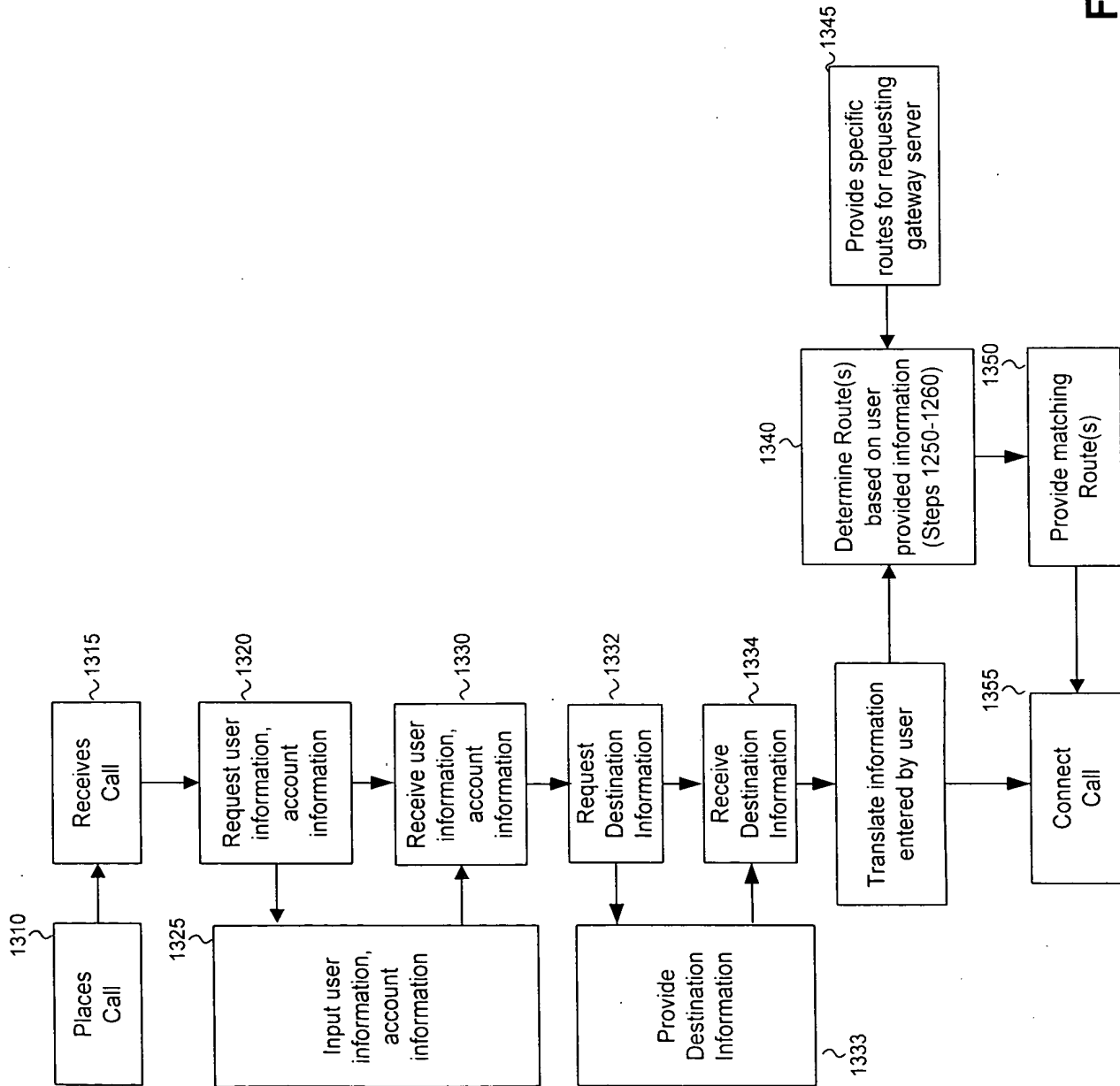


FIG.13

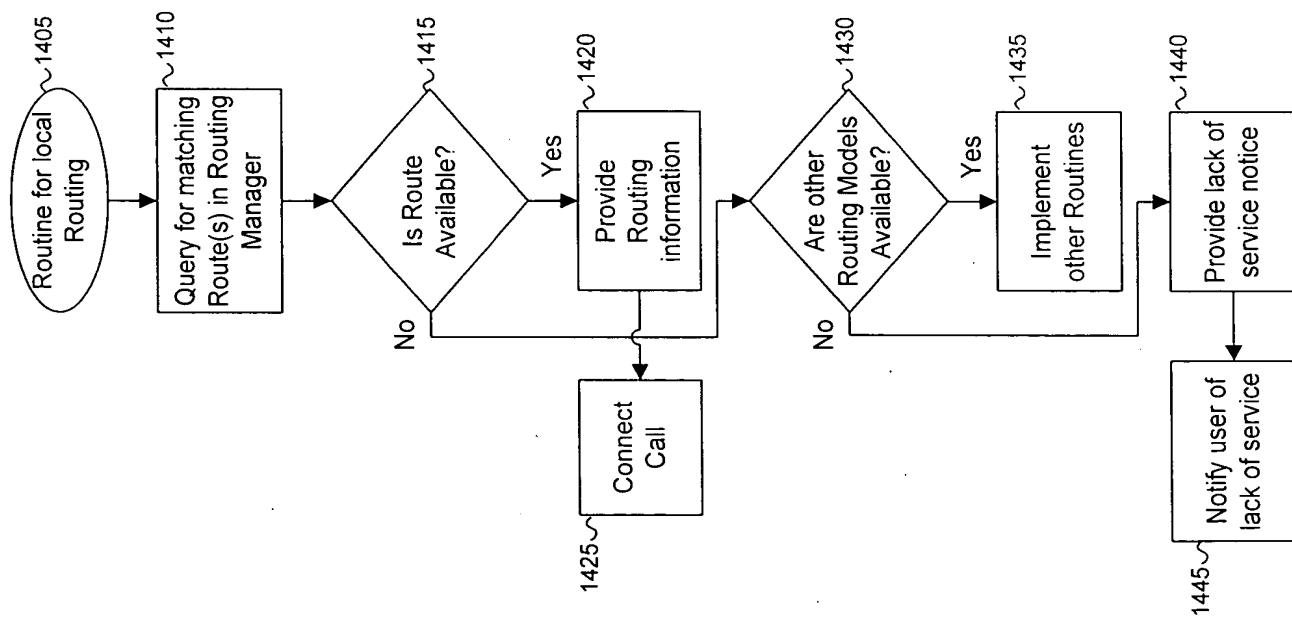


FIG.14

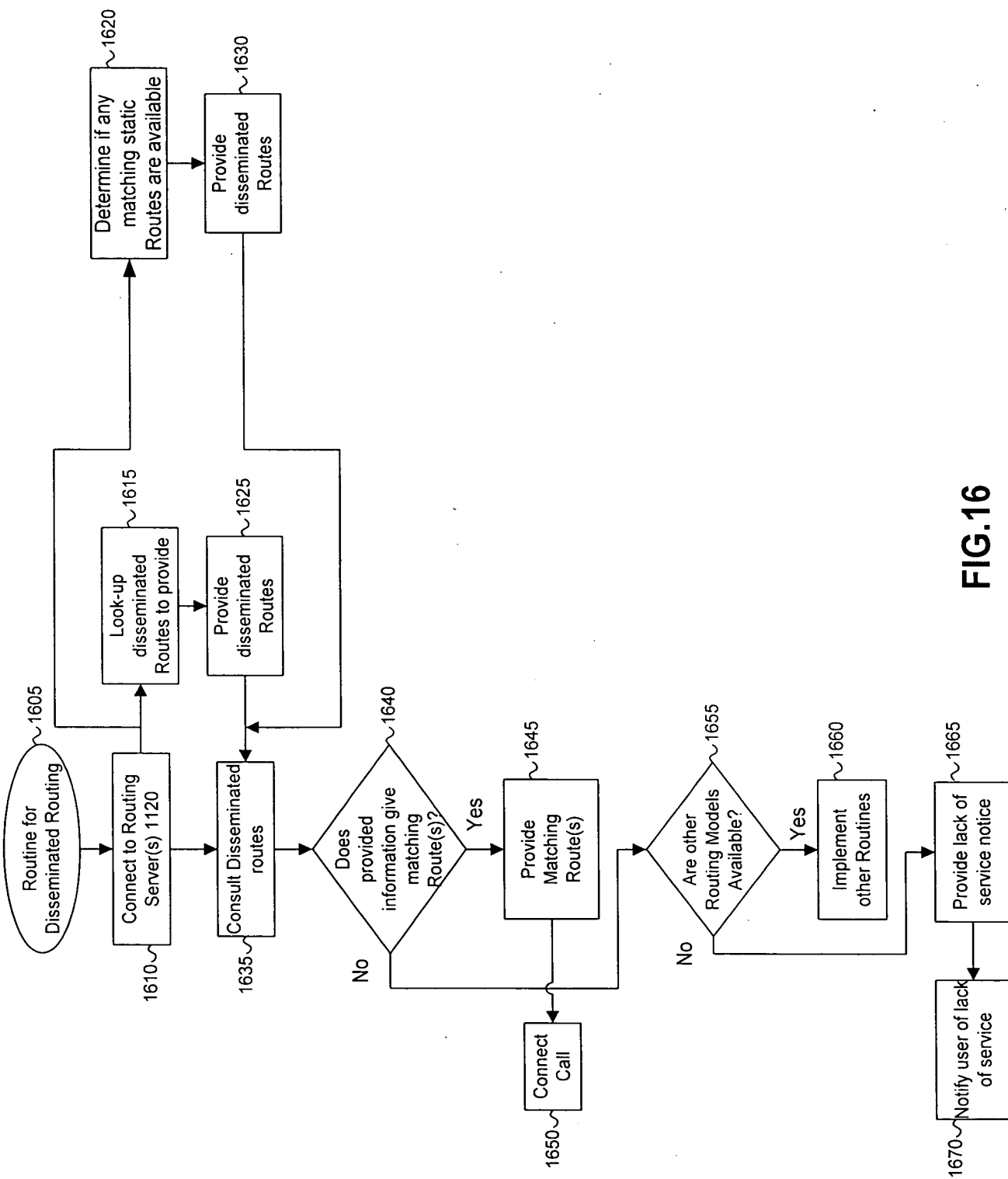


FIG. 16

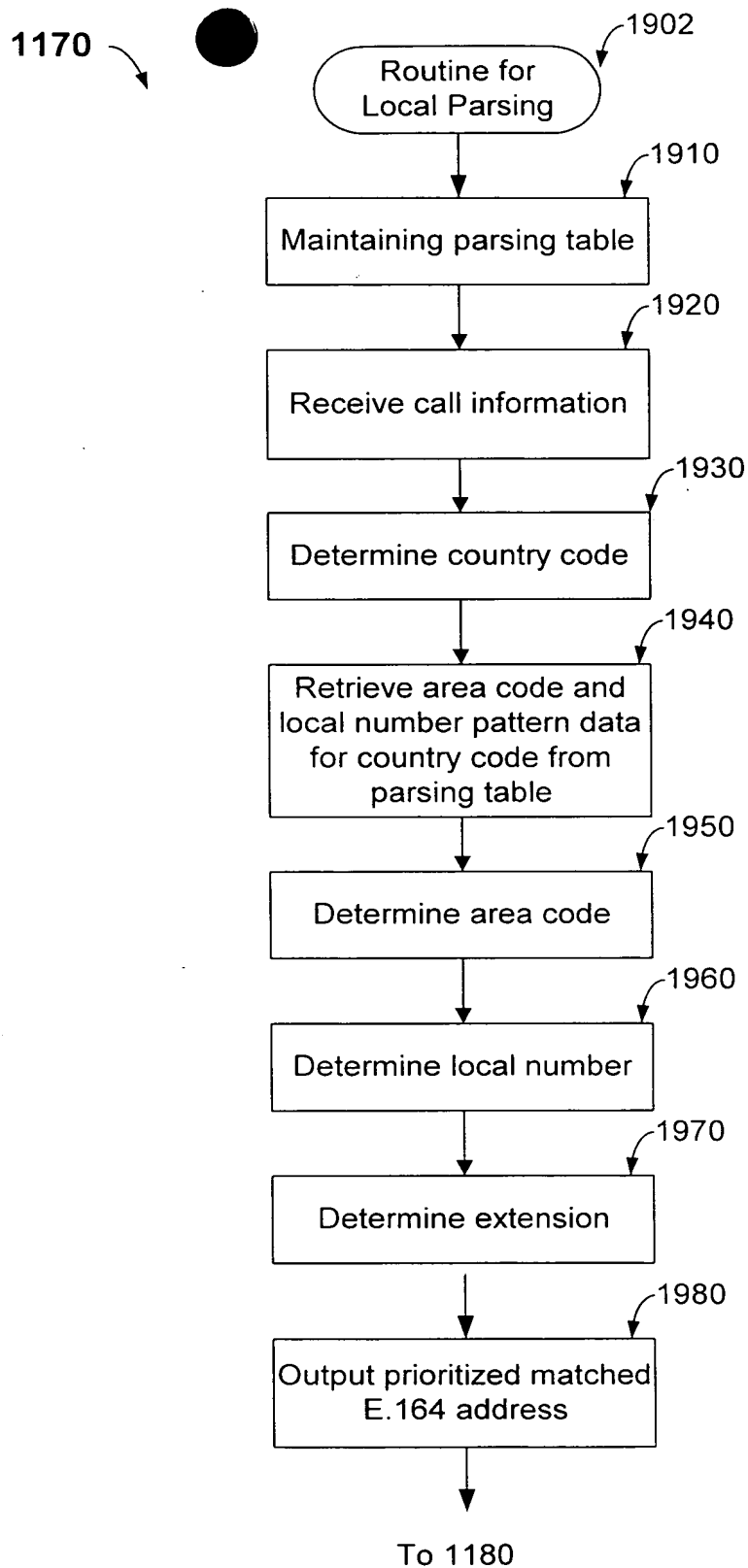
[illegible]

FIG. 19

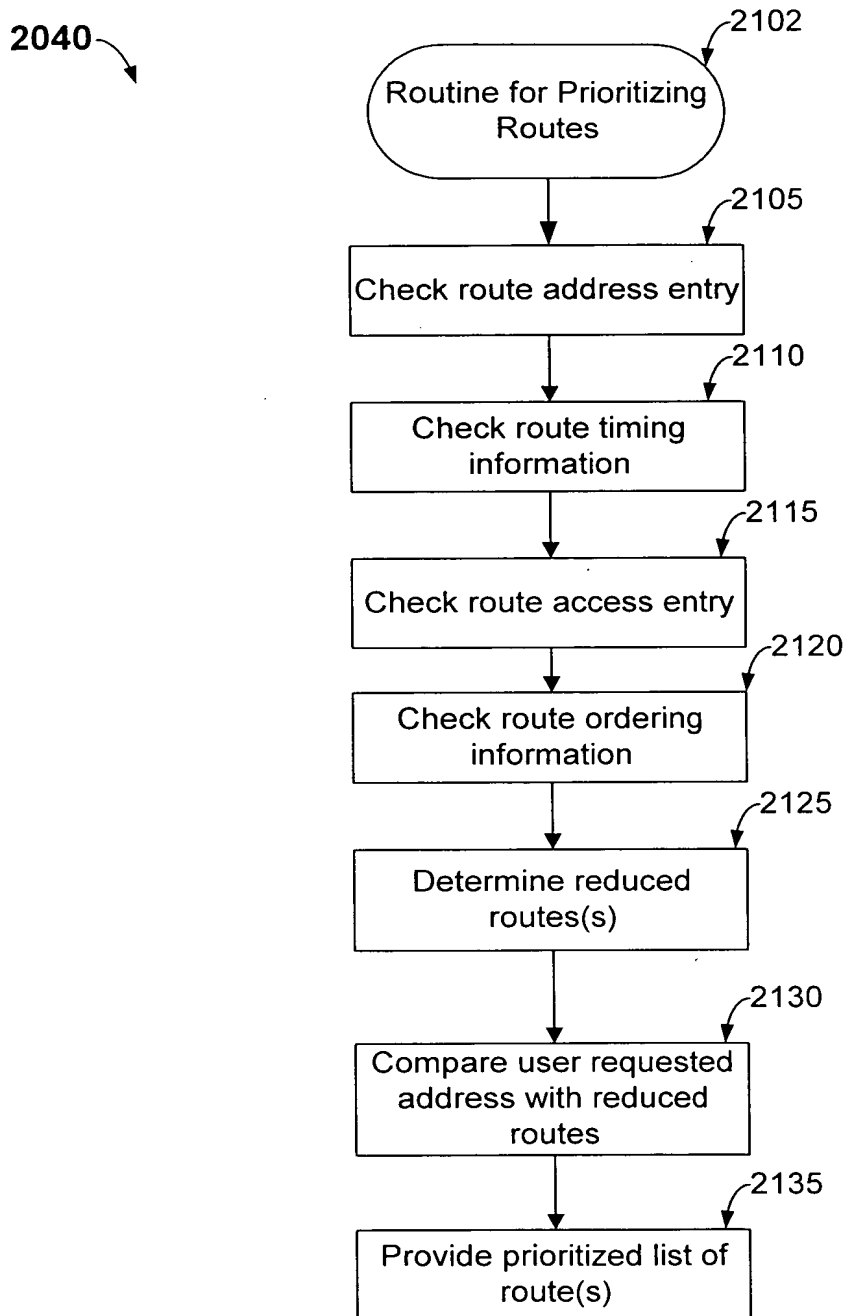


FIG. 21A

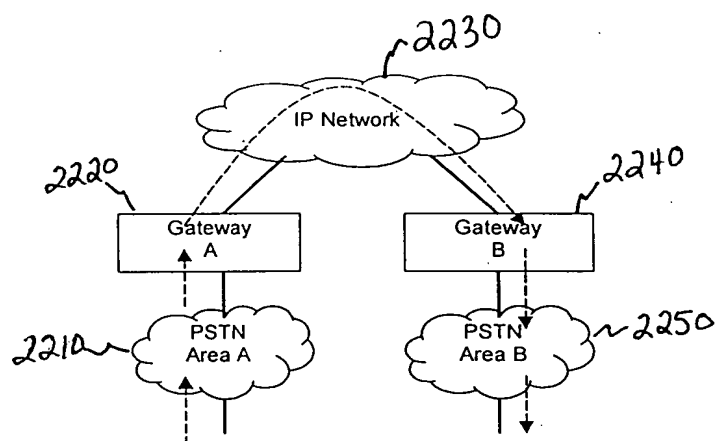


Fig. 22A

Fig. 22B

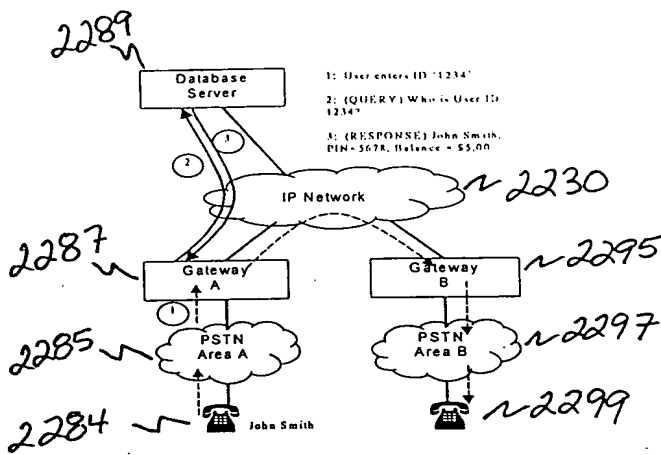


Fig. 22C

09527920-031700

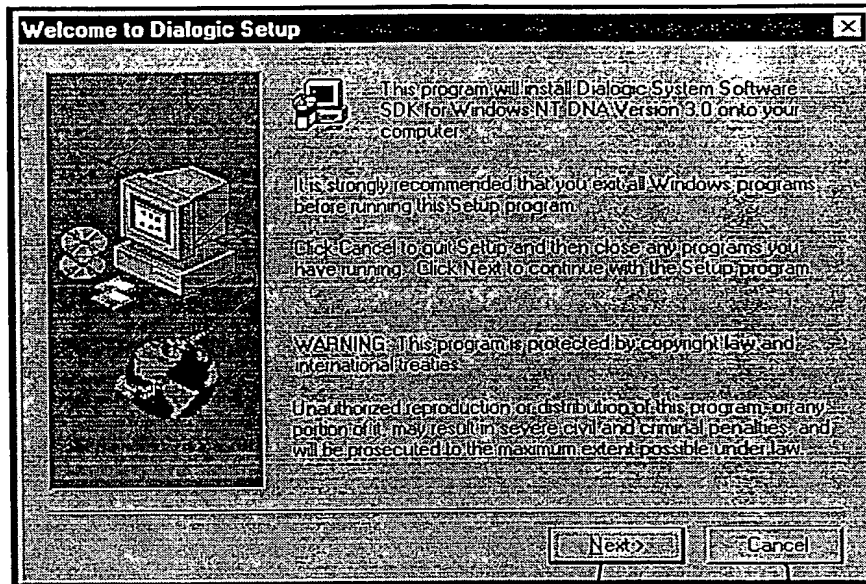


Fig. 23

2304

2306

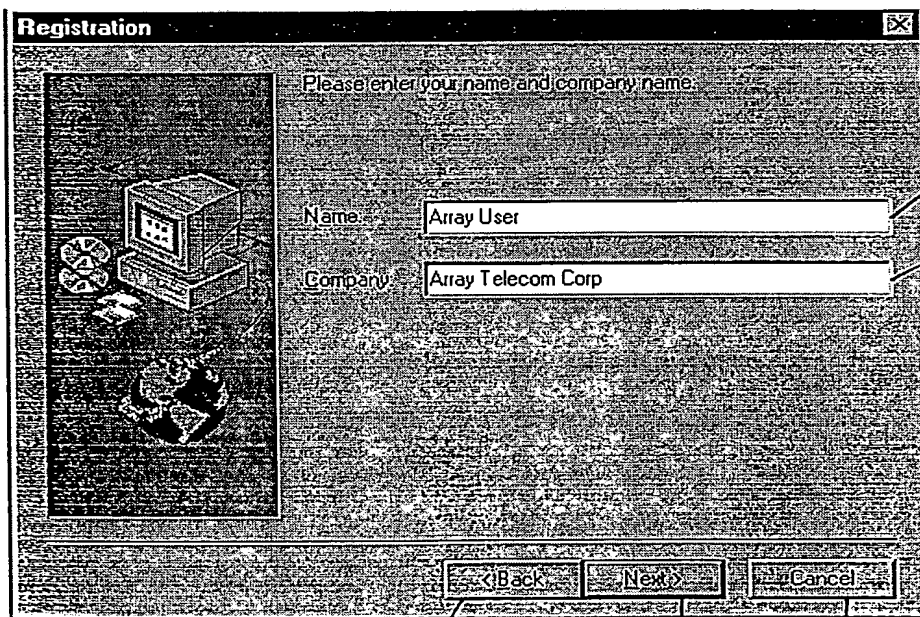


Fig. 24

2408

2404

2406

2410

2412

2402

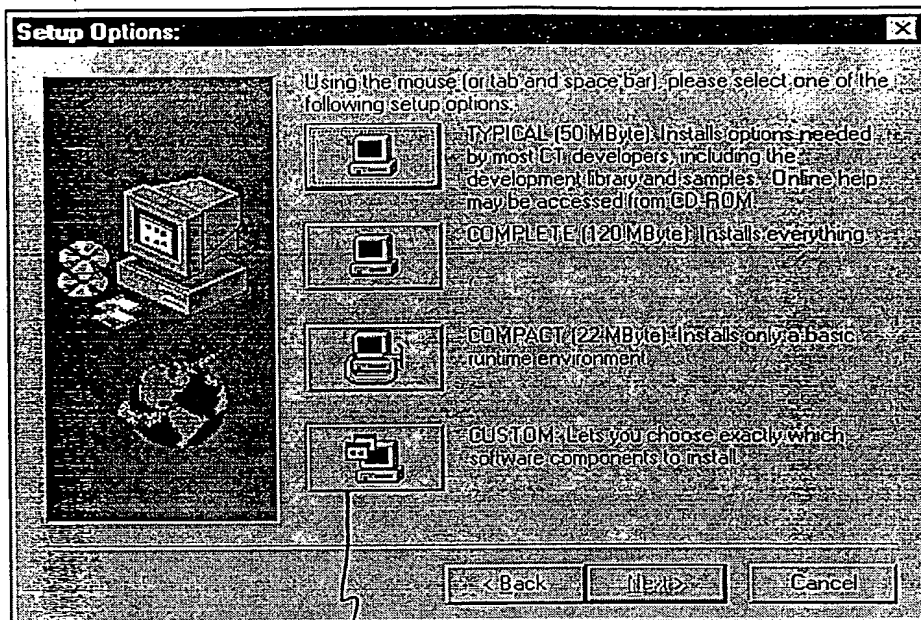


Fig. 25

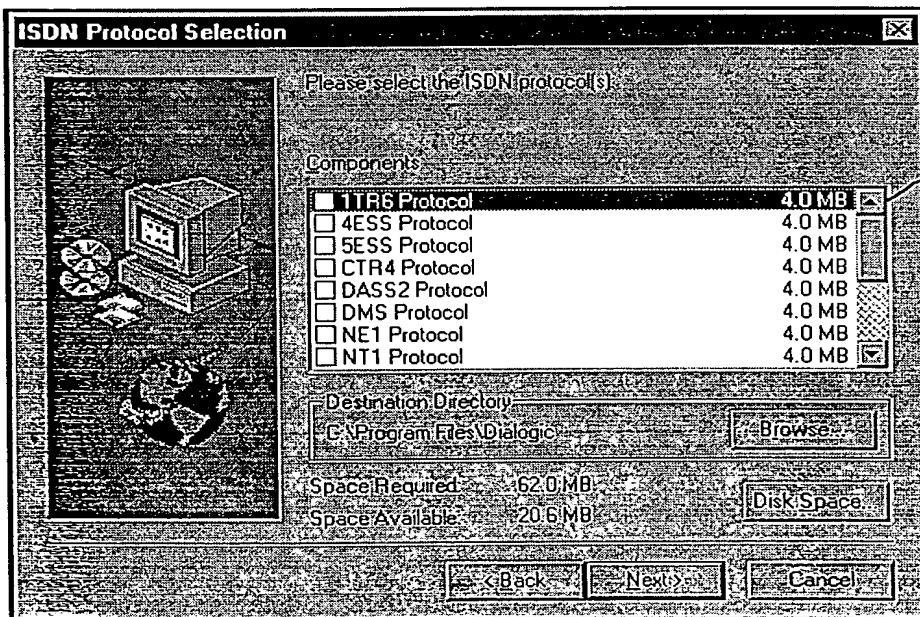
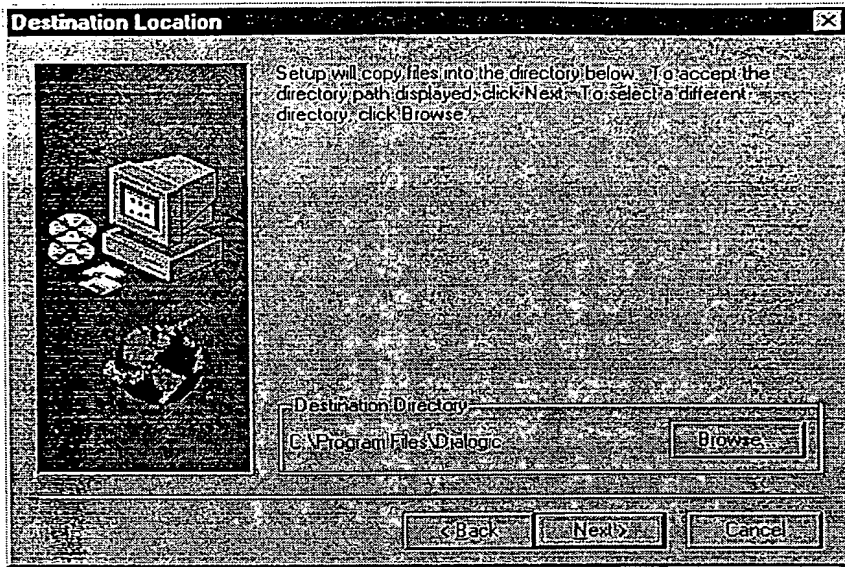


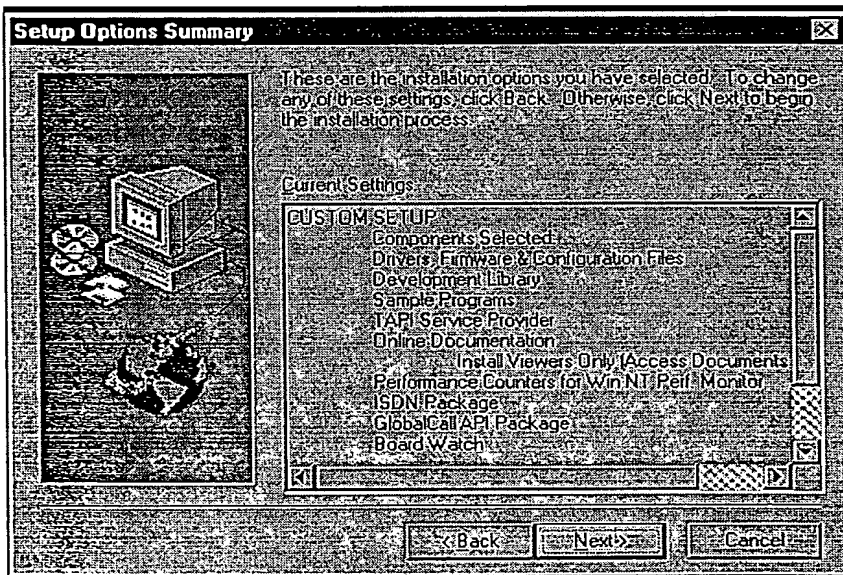
Fig. 26

0077ED-02622560



2702

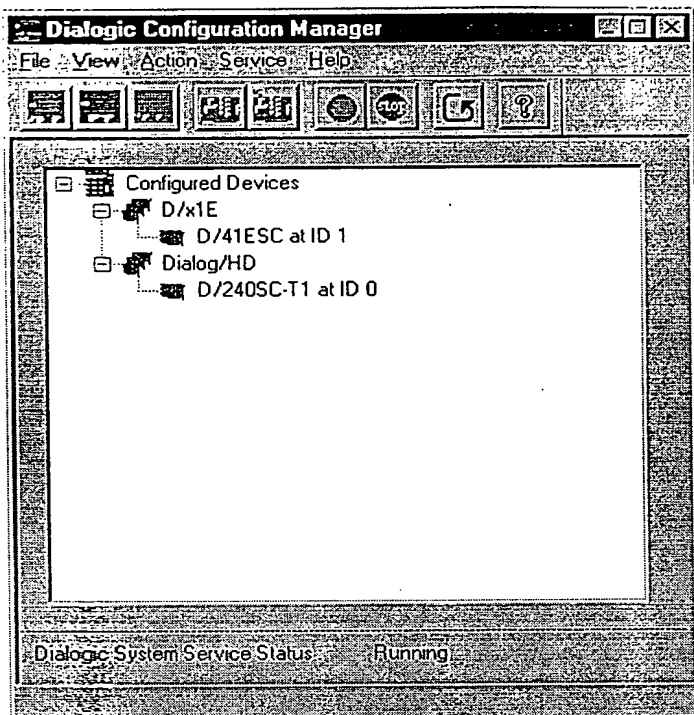
Fig. 27



2802

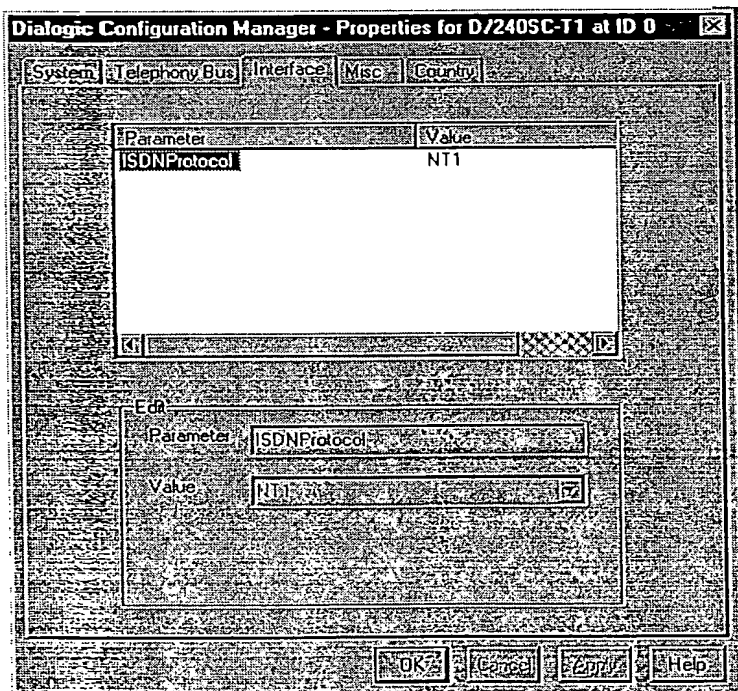
Fig. 28

007TE07 02672560



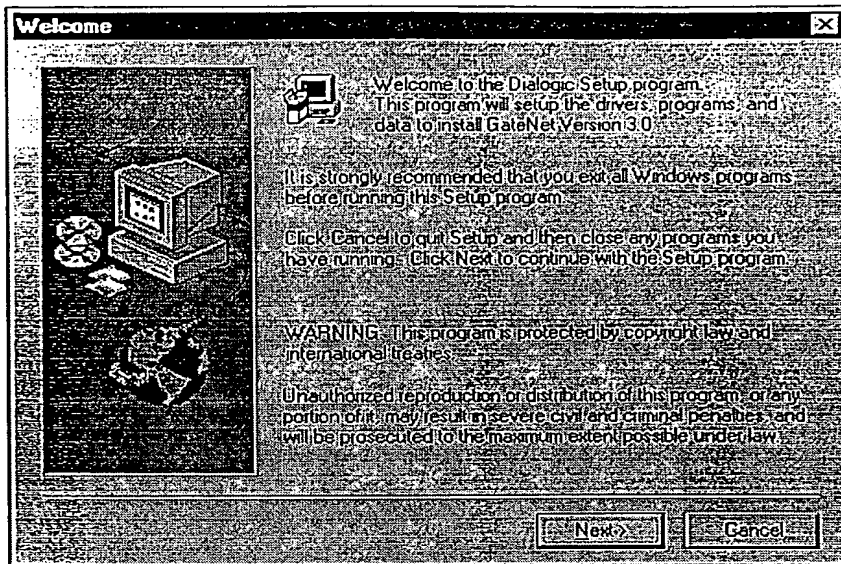
~2902

Fig. 29



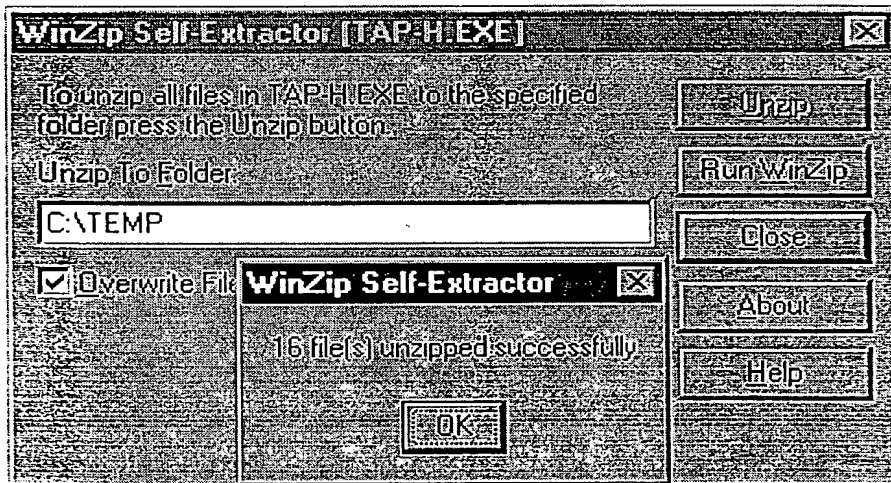
~3002

Fig. 30



~ 3102

Fig.31



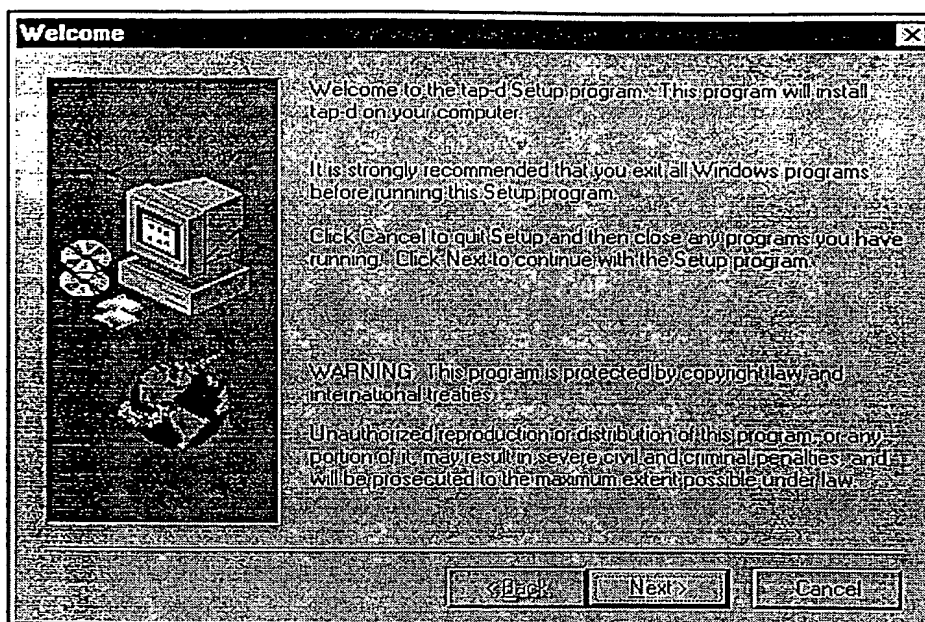
~ 3202

Fig. 32

Fig. 33

Fig. 34

09527920-031700



~3502

Fig. 35

0047ED-02622560

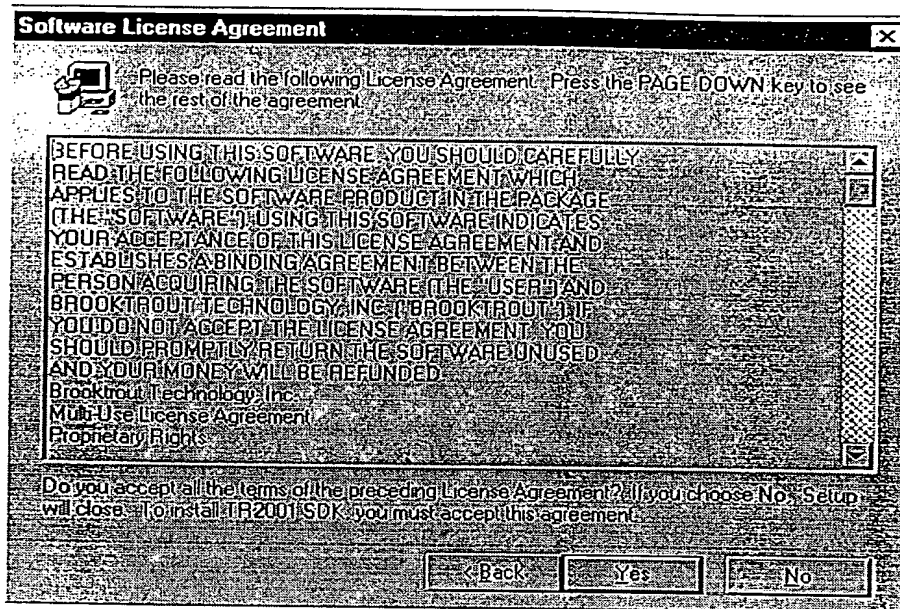


Fig. 36

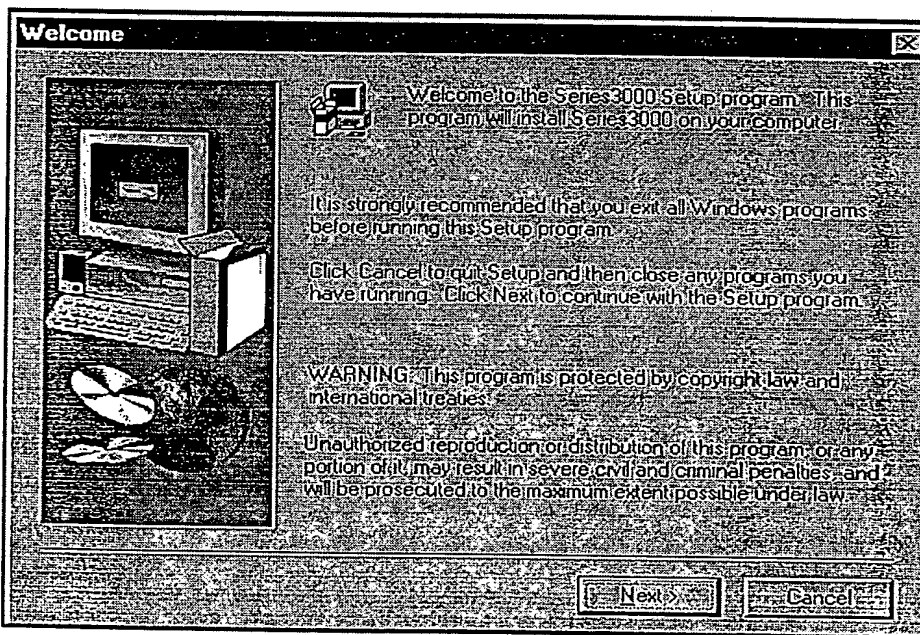
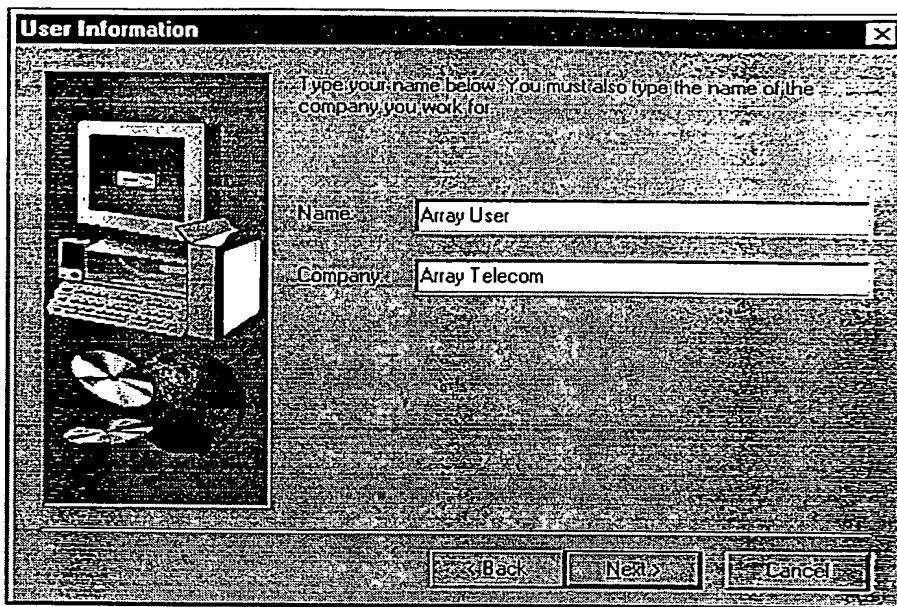


Fig. 37



User Information

Type your name below. You must also type the name of the company you work for.

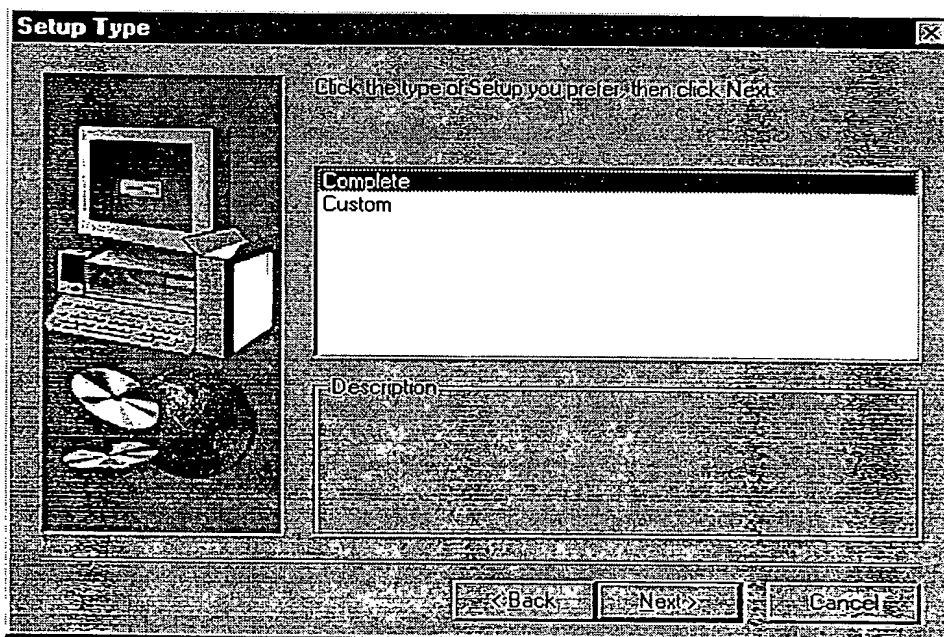
Name:

Company:

<< Back Next >> Cancel

~3802

Fig. 38



Setup Type

Click the type of Setup you prefer, then click Next.

Complete
Custom

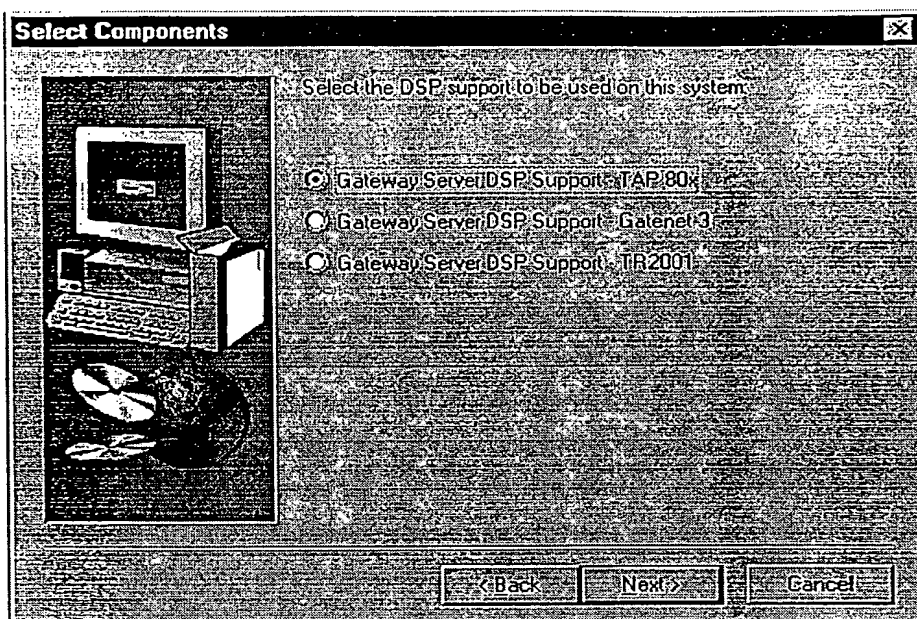
Description:

<< Back Next >> Cancel

~3902

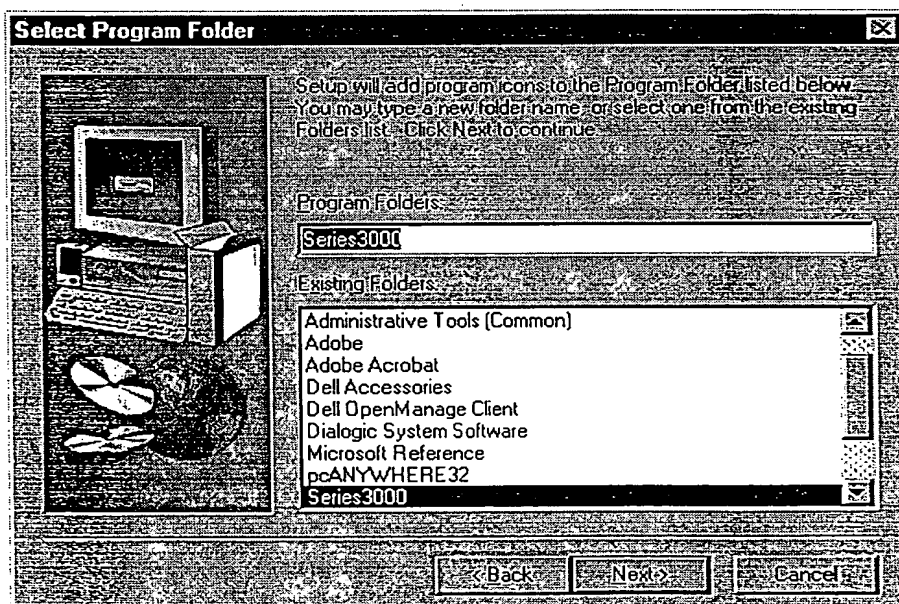
Fig. 39

00527920-031700



~ 4002

Fig. 40



~ 4102

Fig. 41

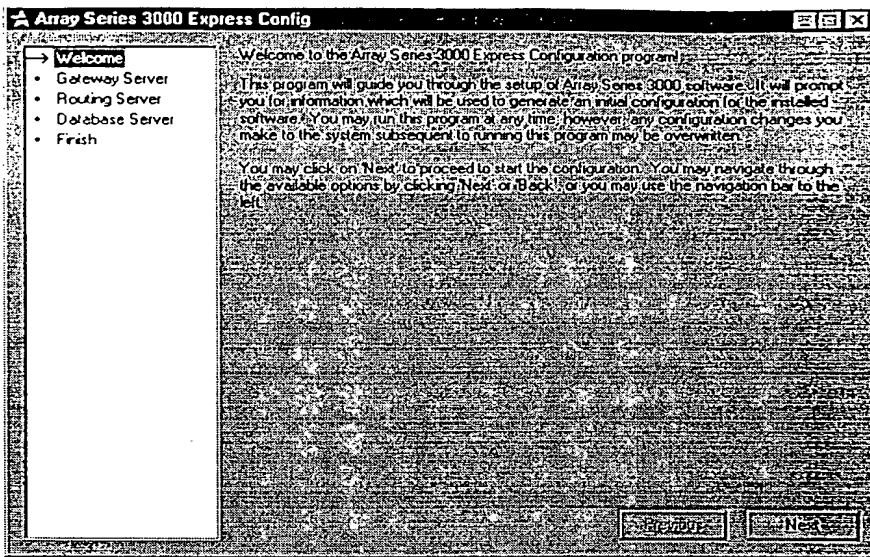


Fig. 42

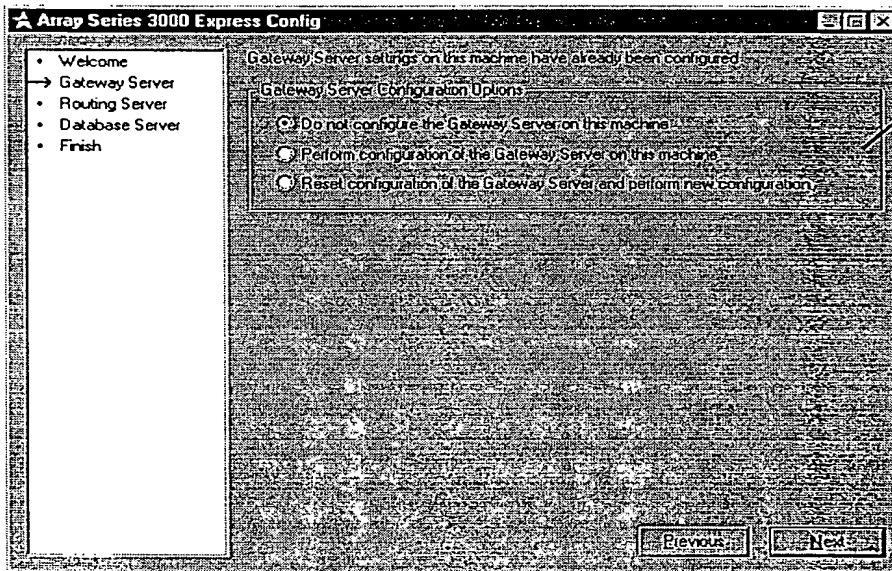


Fig. 43

0027920-031700

Array Series 3000 Express Config

- Welcome
- Gateway Server
 - Identification
 - Mgmt. Access
 - License Info
 - Hardware Setup
 - Call Routing
 - Database Access
- Routing Server
- Database Server
- Finish

This page allows you to configure the security settings for the Gateway Server.

Security Domain Settings

Security Domain Name: TESTDOMAIN

Server Identity: MEMBER1

Security Domain Members:

MGMT	192.168.1.3
------	-------------

Add New Domain Member:

Member Name:

IP Address:

Add Remove

Previous Next

4404

4402

Fig. 44

Array Series 3000 Express Config

- Welcome
- Gateway Server
 - Identification
 - Mgmt. Access
 - License Info
 - Hardware Setup
 - Call Routing
 - Database Access
- Routing Server
- Database Server
- Finish

This page will allow you to configure a list of clients that have the necessary access to manage the Gateway Server.

Note that you should configure the Identification and security component first since you will only be able to select from the list of domains that have been configured.

Gateway Server Management Access Settings

Client with access:

TESTDOMAIN:MGMT

Add New Client:

Domain Name: TESTDOMAIN

Member Name:

Add Remove

Previous Next

4504

4502

Fig. 45

Array Series 3000 Express Config

• Welcome

• Gateway Server

- Identification
- Mgmt. Access

→ License Info

- Hardware Setup
- Call Routing
- Database Access

• Routing Server

• Database Server

• Finish

This page will allow you to configure the licensing information and keys that pertain to the Gateway Server.

Customer/Product Information

Customer ID

111

Product ID

222

Licensing Information

Licensing Mode:

☒ Standalone Mode

☐ Client/Server Mode

License Key

c00000xy0/N80881o6A1b3

Primary Server

Secondary Server

Previous

Next

Fig. 46

Array Series 3000 Express Config

This page will allow you to configure the hardware that is present on this Gateway Server.

DSP Configuration

☐ Galentel 3 (Software)
 ☒ Analogic TAP-802/804
 ☐ Brooktrout TIR-2001

Hardware Devices (Installed)

Dialogic D/41ESC or D/21H (Galentel 3: 2 port analog loop start)

Dialogic D/41ESC or D/21H (4 port analog loop start)

Dialogic D/160SC-LS (16 port analog loop start)

Dialogic MSI/SC-H (8/16/24 port station interface)

☒ MSI/605E-R
 ☐ MSI/160SC-R
 ☐ MSI/240SC-H

Dialogic D/240SC-T1 (T-1 or T-11 ISDN PRI)

☐ Roched b1
 ☒ ISDN PRI

Dialogic D/300SC-E1 (ISDN PRI)

Fig. 47

Array Series 3000 Express Config

- Welcome
- Gateway Server
 - Identification
 - Mgmt. Access
 - License Info
 - Hardware Setup
 - Call Routing
 - Database Access
- Routing Server
- Database Server
- Finish

This page will allow you to configure the list of Routing servers used by this Gateway Server

Routing Server List

Server Name	IP Address/Hostname
TESTROUTE1	192.168.1.4

Remove

Add New Server

Server Name:

IP Address/Hostname:

Add

Previous Next

4804

4802

Fig. 48

Array Series 3000 Express Config

- Welcome
- Gateway Server
 - Identification
 - Mgmt. Access
 - License Info
 - Hardware Setup
 - Call Routing
 - Database Access
- Routing Server
- Database Server
- Finish

This page will allow you to configure the list of Database servers used by this Gateway

Database Server List

Server Name	IP Address/Hostname
TESTDB1	192.168.1.5

Remove

Add New Server

Server Name:

IP Address/Hostname:

Add

Previous Next

4904

4902

Fig. 49A

0047E0 02642560

Array Series 3000 Express Config

- Welcome
- Gateway Server
- Routing Server
 - Identification
 - Mgmt. Access
 - License Info
 - Client Setup
- Database Server
- Finish

This page will allow you to configure a list of clients that have the necessary access to connect to and use the Routing Server.

Note that you should configure the identification and security component first, since you will only be able to select from the list of domains that have been configured.

Routing Server Client Access Settings

Clients with access:

NEWDOMAIN:NewMember

Add New Client

Domain Name: ☒

Member Name:

Fig. 49B

~ 4950

0047E0" 02672560



Fig. 51



Fig. 52

0052920-021700

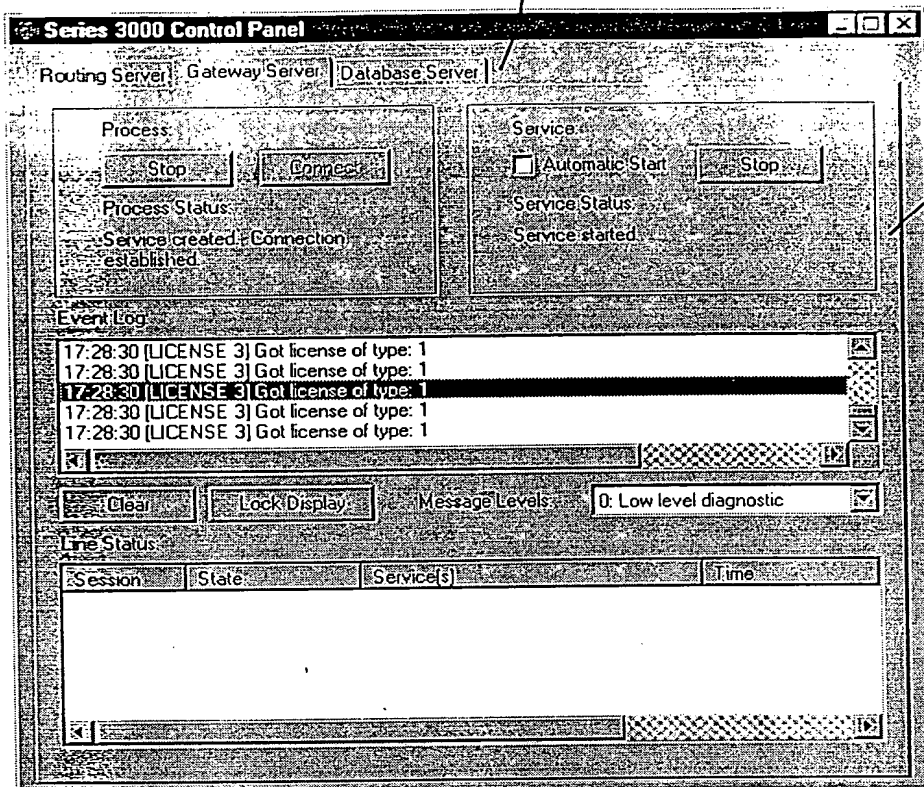


Fig. 53

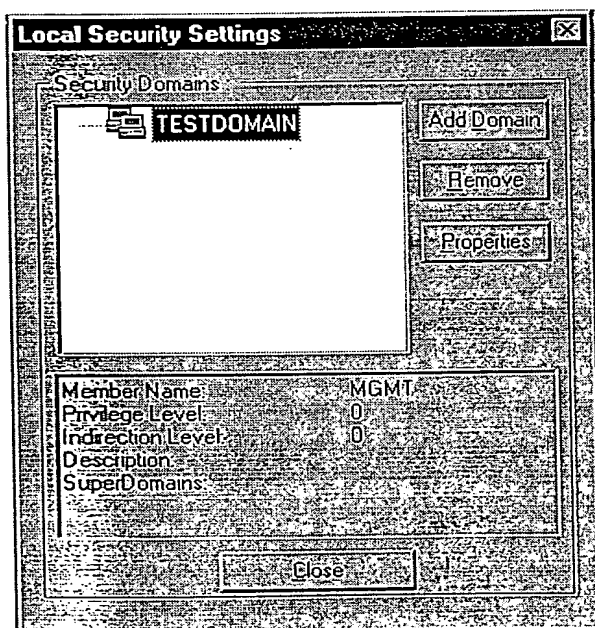


Fig. 54

~ 5504

~ 5502

✓ 5602

Fig. 56

MEMBER1 : Service Manager

Service Status: Service is started [STOP]

Event Logging: Event Logging Disabled [Event Log]

Default Debug Message Level: NORMAL EVENT [Advanced]

[Empty List Box]

[Clear] [Lock Display]

Fig. 57

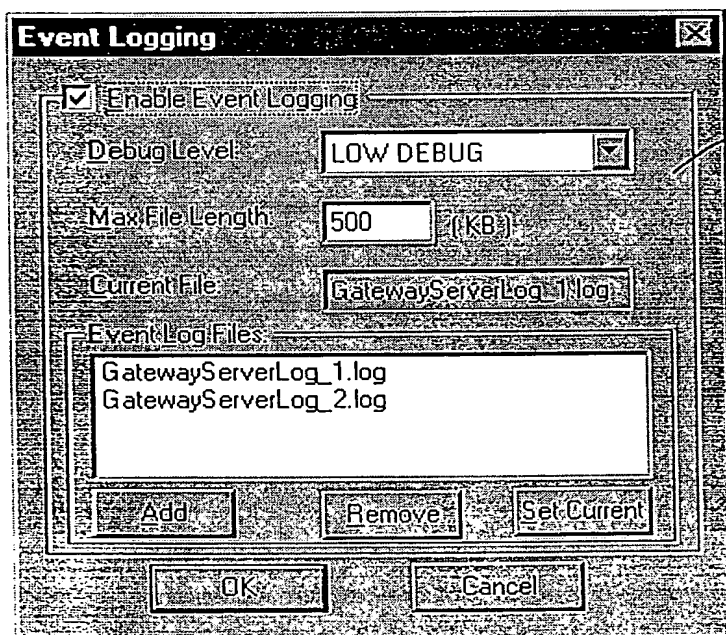
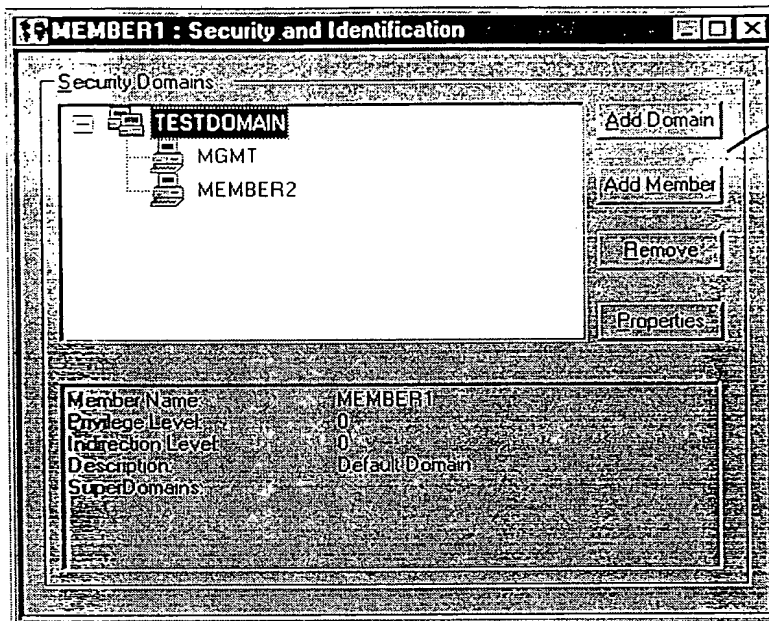


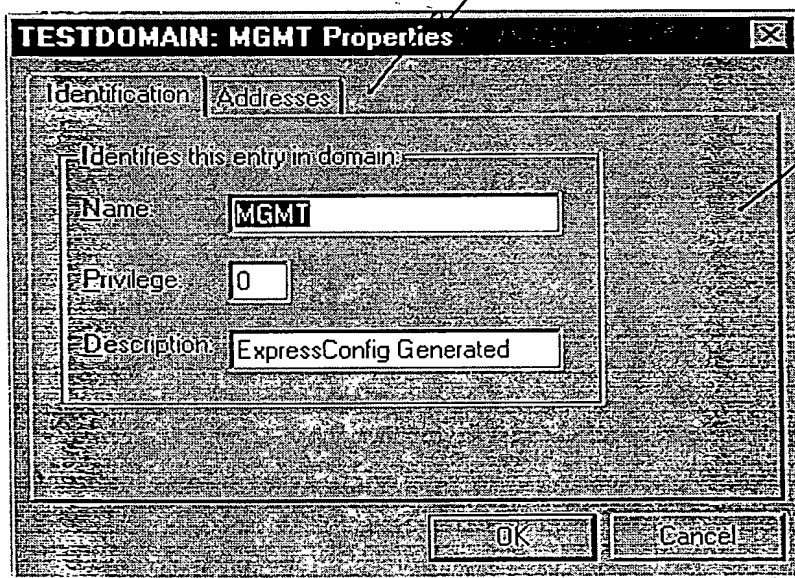
Fig. 58



5904

5902

Fig. 59



6004

6006

6002

Fig. 60

00000000-00000000

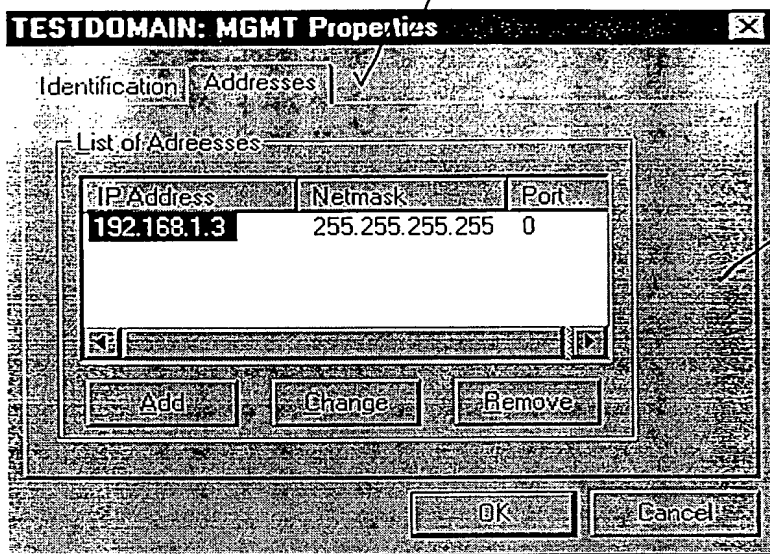


Fig. 61

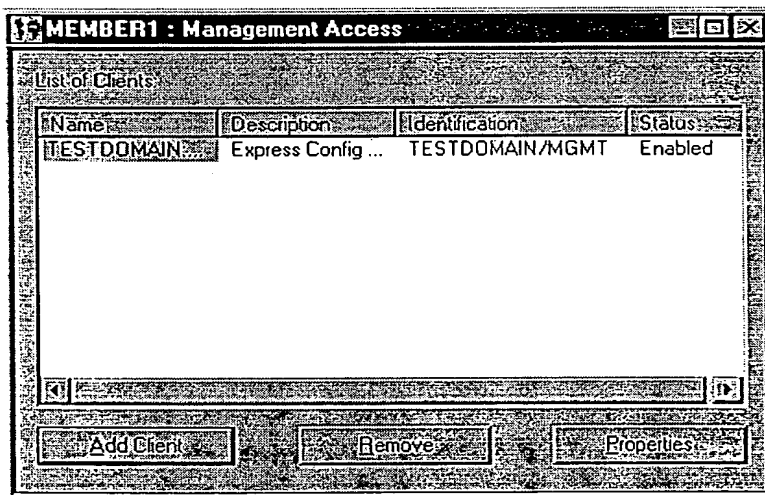
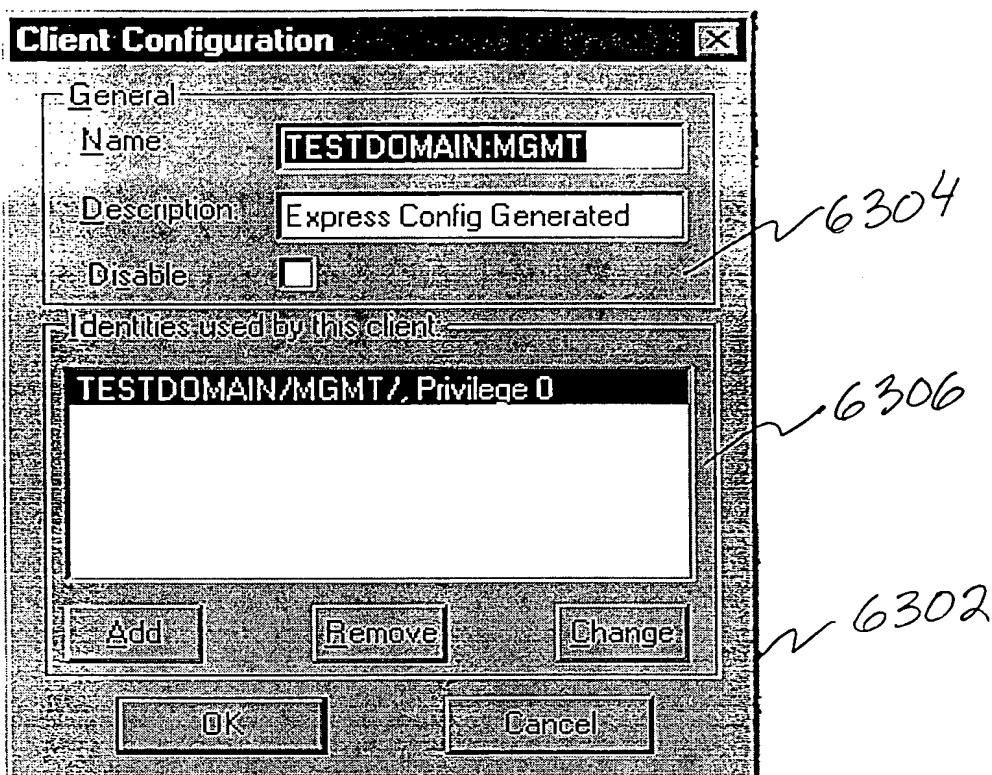


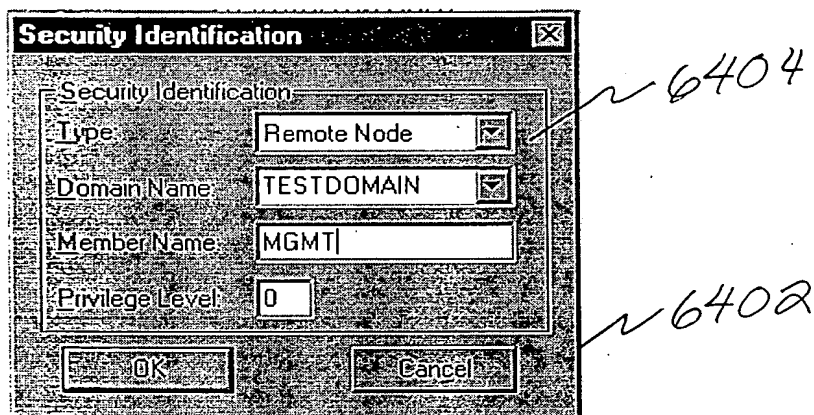
Fig. 62

004160 02642560



The 'Client Configuration' dialog box features a 'General' tab with the following fields: 'Name' (TESTDOMAIN:MGMT), 'Description' (Express Config Generated), and 'Disable' (unchecked). Below this is a list box titled 'Identities used by this client' containing 'TESTDOMAIN/MGMT /, Privilege 0'. At the bottom are 'Add', 'Remove', and 'Change' buttons, and at the very bottom are 'OK' and 'Cancel' buttons. Handwritten annotations include '6304' pointing to the 'Description' field, '6306' pointing to the list box, and '6302' pointing to the 'Add', 'Remove', and 'Change' buttons.

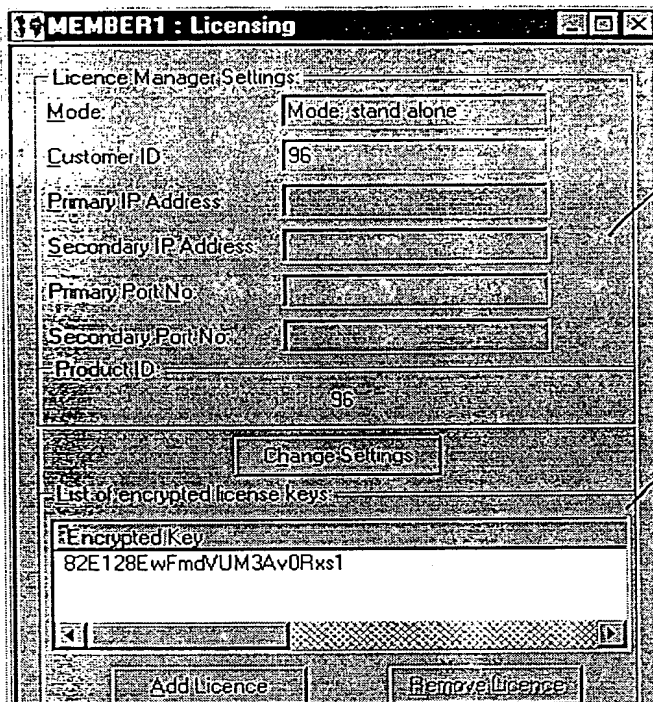
Fig. 63



The 'Security Identification' dialog box contains the following fields: 'Type' (Remote Node), 'Domain Name' (TESTDOMAIN), 'Member Name' (MGMT), and 'Privilege Level' (0). Each field has a dropdown arrow on its right. At the bottom are 'OK' and 'Cancel' buttons. Handwritten annotations include '6404' pointing to the 'Type' dropdown and '6402' pointing to the 'Privilege Level' dropdown.

Fig. 64

00527920-0262560



MEMBER1 : Licensing

Licence Manager Settings:

Mode: Mode: stand alone

Customer ID: 96

Primary IP Address:

Secondary IP Address:

Primary Port No:

Secondary Port No:

Product ID: 96

Change Settings

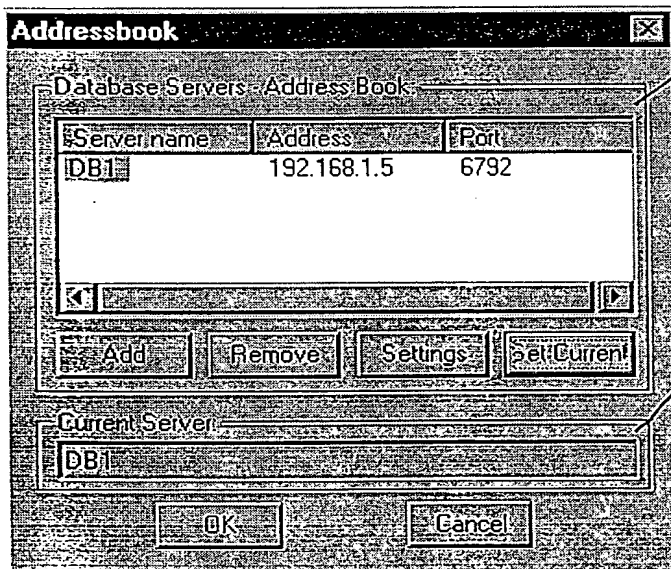
List of encrypted license keys:

Encrypted Key
82E128EwFmdVUM3Av0Rxs1

Add Licence Remove Licence

Handwritten annotations: 6504 points to the IP address fields; 6506 points to the Change Settings button; 6502 points to the list of encrypted license keys.

Fig. 65



Addressbook

Database Servers - Address Book

Servername	Address	Port
DB1	192.168.1.5	6792

Add Remove Settings Set Current

Current Server: DB1

OK Cancel

Handwritten annotations: 6604 points to the table; 6606 points to the Set Current button; 6602 points to the Current Server field.

Fig. 66

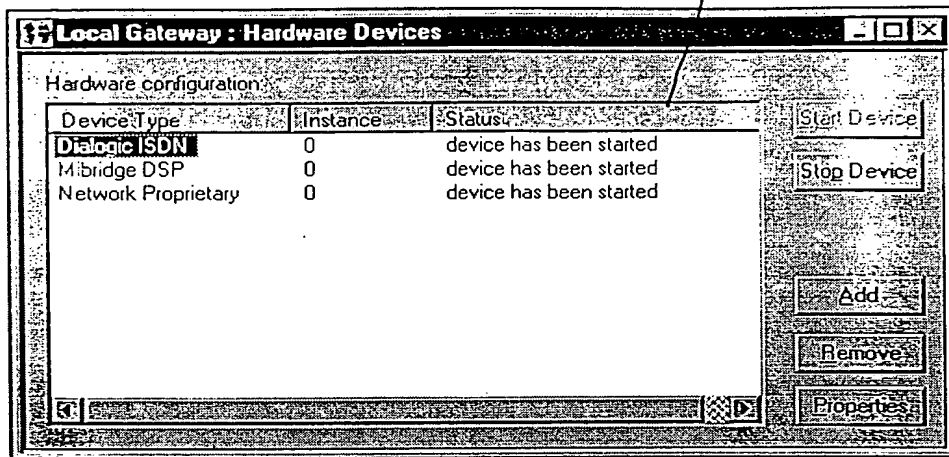


Fig. 67

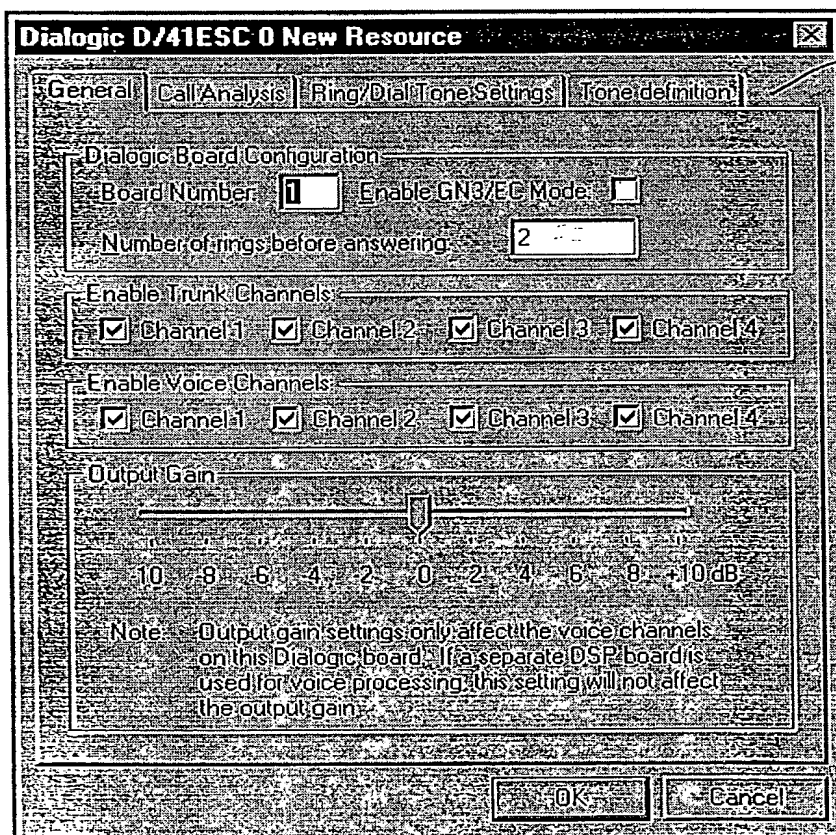


Fig. 68

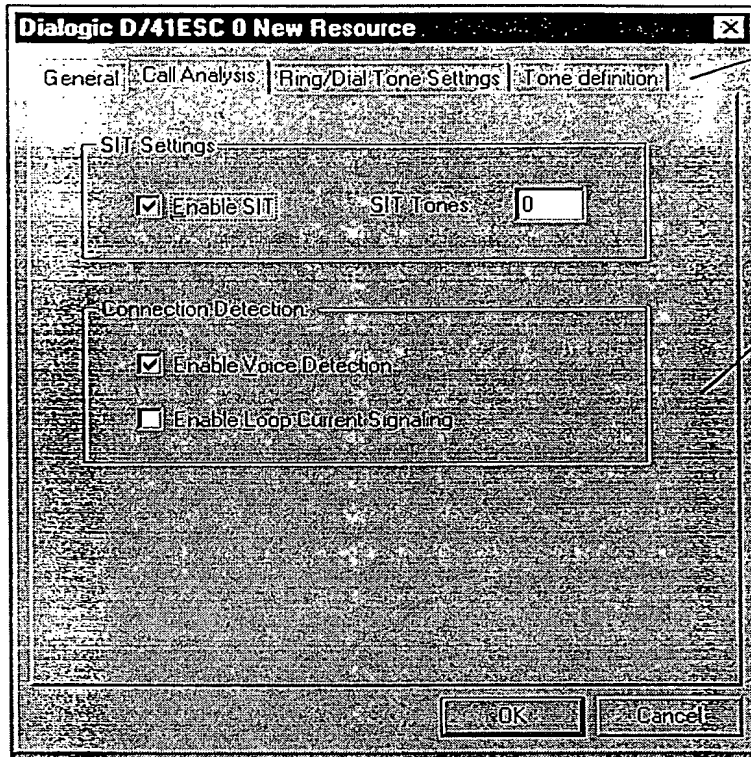


Fig. 69

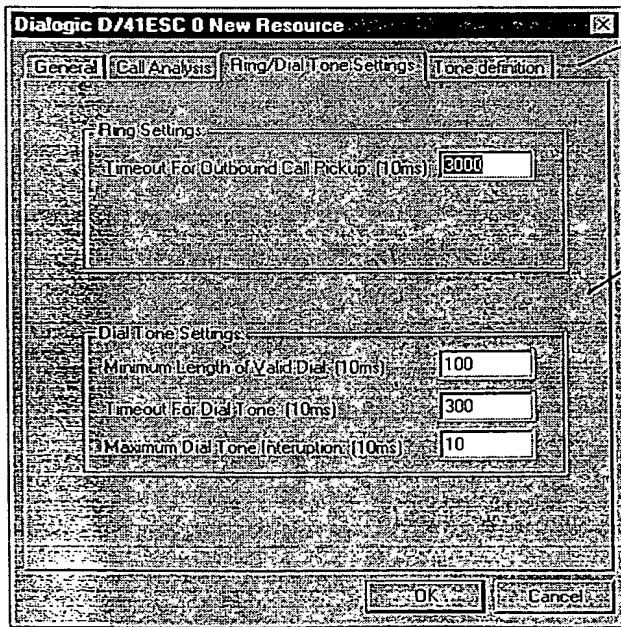


Fig. 70

00527920:031700

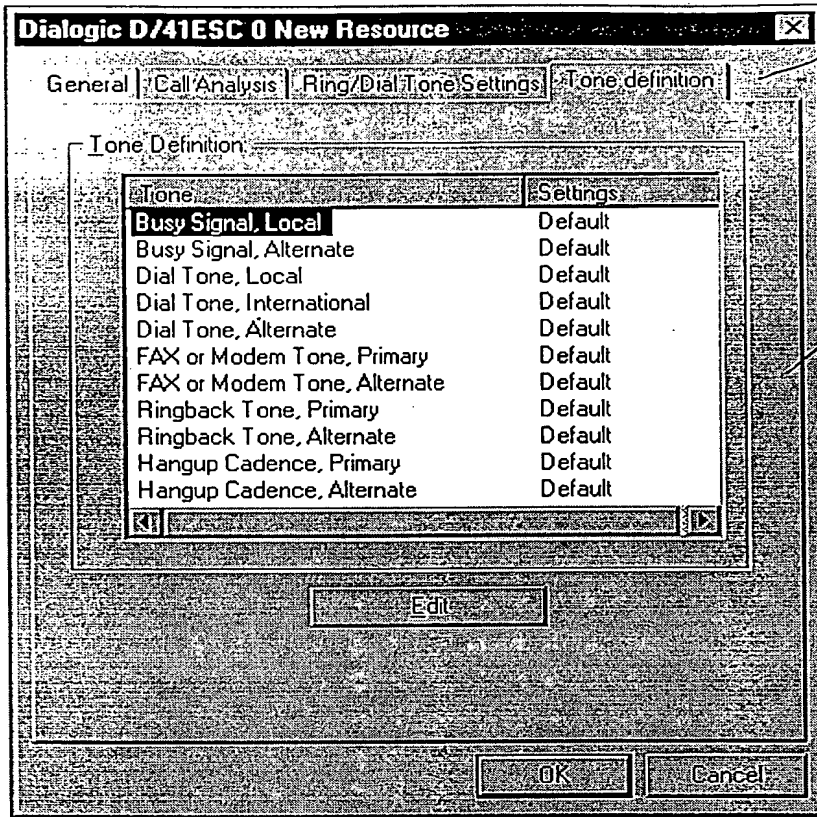


Fig. 71

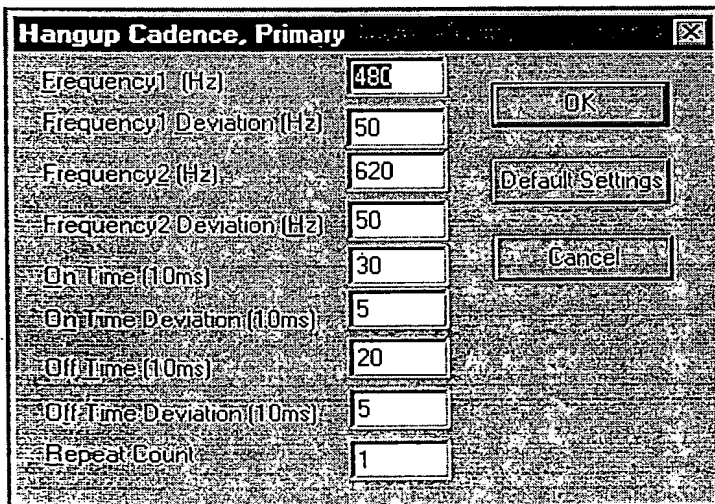


Fig. 72

Dialogic D/1605C-LS 0 New Resource

General | Call Analysis | Ring/Dial Tone Settings

Dialogic Board Configuration

Board Number: EG Adapter: ☒

Enabled Trunk Channels

<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> Ch5	<input checked="" type="checkbox"/> Ch9	<input checked="" type="checkbox"/> Ch13
<input checked="" type="checkbox"/> Ch2	<input checked="" type="checkbox"/> Ch6	<input checked="" type="checkbox"/> Ch10	<input checked="" type="checkbox"/> Ch14
<input checked="" type="checkbox"/> Ch3	<input checked="" type="checkbox"/> Ch7	<input checked="" type="checkbox"/> Ch11	<input checked="" type="checkbox"/> Ch15
<input checked="" type="checkbox"/> Ch4	<input checked="" type="checkbox"/> Ch8	<input checked="" type="checkbox"/> Ch12	<input checked="" type="checkbox"/> Ch16

Enabled Voice Channels

<input checked="" type="checkbox"/> Ch1	<input checked="" type="checkbox"/> Ch5	<input checked="" type="checkbox"/> Ch9	<input checked="" type="checkbox"/> Ch13
<input checked="" type="checkbox"/> Ch2	<input checked="" type="checkbox"/> Ch6	<input checked="" type="checkbox"/> Ch10	<input checked="" type="checkbox"/> Ch14
<input checked="" type="checkbox"/> Ch3	<input checked="" type="checkbox"/> Ch7	<input checked="" type="checkbox"/> Ch11	<input checked="" type="checkbox"/> Ch15
<input checked="" type="checkbox"/> Ch4	<input checked="" type="checkbox"/> Ch8	<input checked="" type="checkbox"/> Ch12	<input checked="" type="checkbox"/> Ch16

Output Gain

Slider: -10 8 6 4 2 0 2 4 6 8 -10 dB

Note: Output gain settings only affect the voice channels on this Dialogic board. If a separate DSP board is used for voice processing, this setting will not affect the output gain.

OK Cancel

Fig. 73

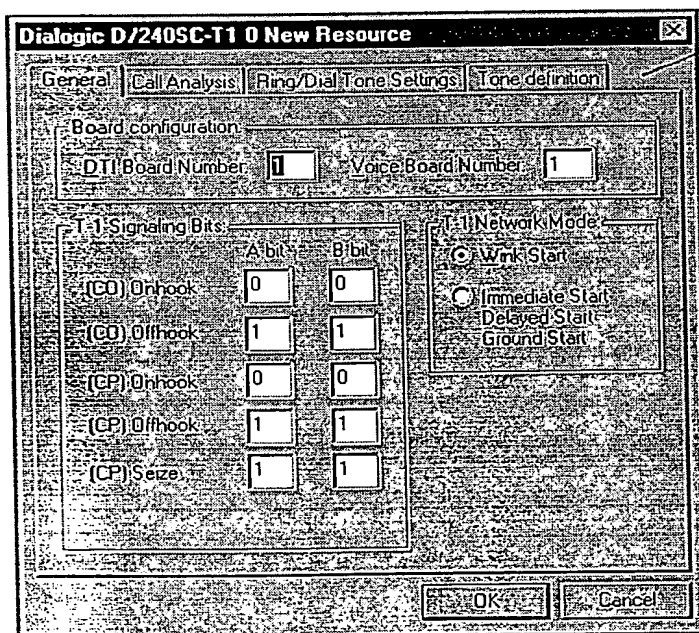


Fig. 74

Dialogic ISDN 0 Properties

General | Channel Configuration | Call Setup Parameters

Dialogic Board Configuration

DTI Board Number: Voice Board Number:

Board Type: ☒

Output Gain

-10 -8 -6 -4 -2 0 2 4 6 8 +10 dB

Note: Output gain settings only affect the voice channels on this Dialogic board. If a separate DSP board is used for voice processing, this setting will not affect the output gain.

OK Cancel

Fig. 75

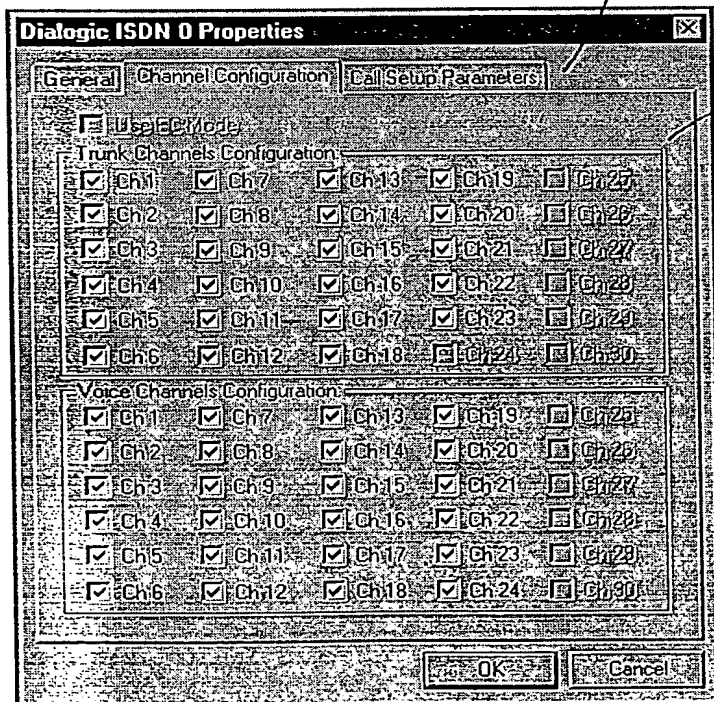


Fig. 76

Dialogic ISDN 0 Properties

General | Channel Configuration | Call Setup Parameters

Destination Number Information

Destination Number Type: ☒ Number is sent en bloc

Destination Number Plan: ☒ ISDN (E.164)

Connection Timeout (sec): 30

Originating Number Information

Originating Number Type: ☒ Local

Originating Number Plan: ☒ ISDN (E.164)

Originating Number: 7364862

Network Settings

Layer 1 Protocol: ☒ Default

OK Cancel

7504

7702

7502

Fig. 77

Dialogic MSI/SC 0 New Resource

New MSI/SC Board

Board configuration

Board Number: 0

Board Type: ☒ MSI/80SC-R

Ring Settings

☒ Ring line for outbound calls (requires ringing option on MSI)

6 unanswered rings before aborting call

Output Gain

-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 db

ANI Information

Channel: 1 ANI String:

OK Cancel

7802

Fig. 78

00527920 02672560

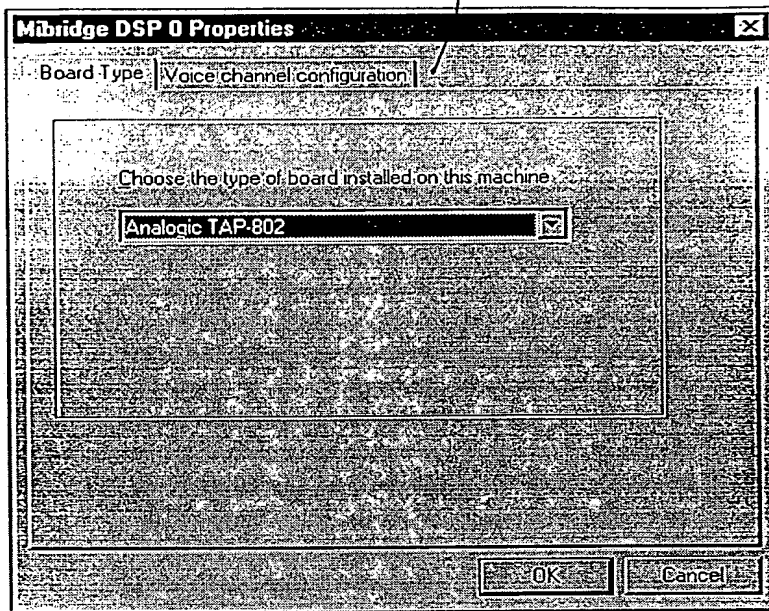


Fig. 79

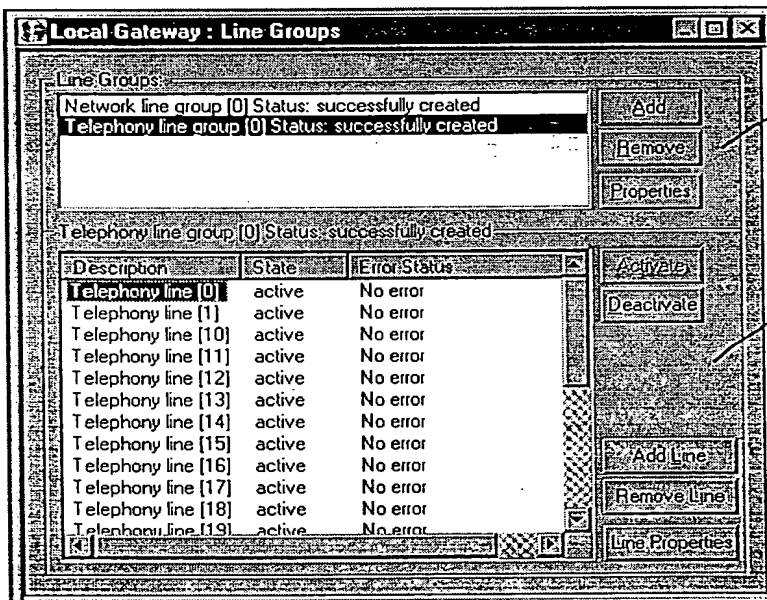


Fig. 80

004720 02642560

Telephony line group [0] Status: successfully created [X]

General | Hangup Settings | Integration digit settings

Maximum Connect Time: 0 (sec)

Line allocation strategy: Lowest line allocated [X]

Support for DID Lines

☐ Enable Support for DID

Min Digits Accepted: 4

Max Digits Accepted: 4

Collection Time Limit: 1000 (msec)

OK Cancel

8104

8106

8102

Fig. 81

Telephony line group [0] Status: successfully created [X]

General | Hangup Settings | Integration digit settings

Silence triggered hangup settings

Disconnection: Disable [X]

Trigger time: 45000 (sec)

DTMF triggered hangup settings

☒ Enable DTMF Triggered Hangup

Hangup Digits:

Digit Interval: 1500 (millsec)

OK Cancel

8104

8202

8102

Fig. 82

Telephony line [0]

Connection detection settings: Resources | General | Call Analysis

Location/Position Information about this line: Slot # 5, Port # 1

Trunk Resource Configuration

Resource Type: Dialogic ISDN Trunk [0] ☒

Resource Instance Number: 0

Voice Channel Resource Configuration

Resource Type: Mibridge DSP Voice [0] ☒

Resource Instance Number: 0

OK Cancel

Telephony line [0]

Connection detection settings | Disconnection detection

Resources | General | Call Analysis

☒ Accept Any Location

Accept selected location in shown order

[Empty List Box]

Add

Remove

Class of services

duplex service

OK Cancel

Fig. 84

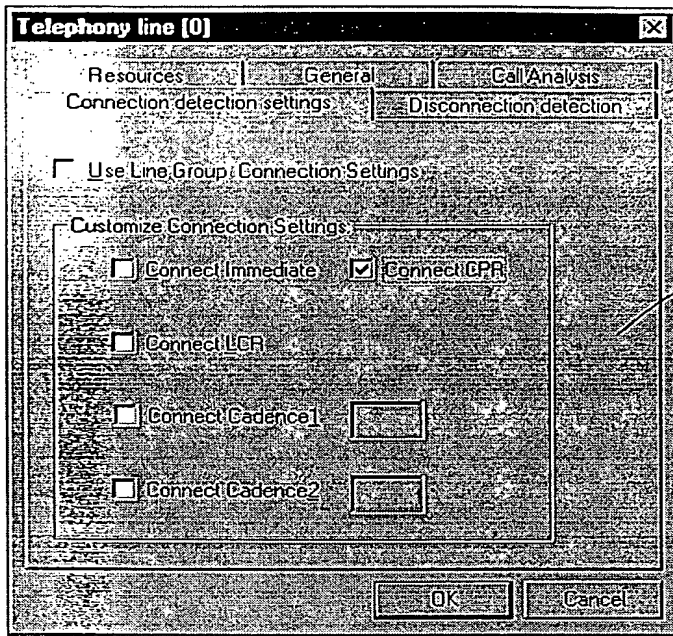


Fig. 85

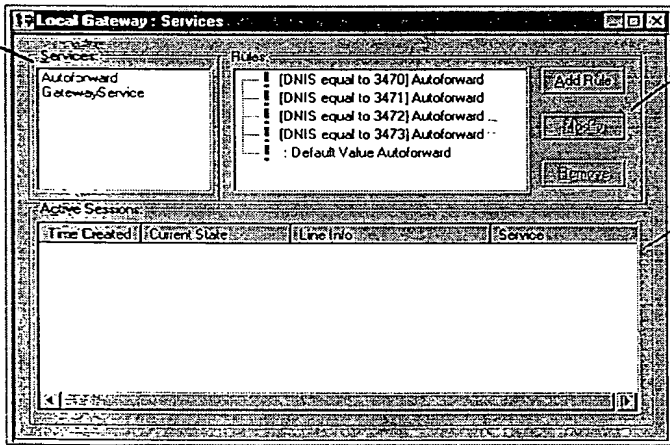


Fig. 86

Add New Rule

Rule Settings:		Bindings:
Attribute:	DNIS	UserLanguage [English]
Relation:	equal to	
Value:	3470	
Service:	GatewayService	<input type="button" value="Add"/> <input type="button" value="Remove"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>		

Fig. 87

Local Gateway : Telephony line group ...

User Lookup:	
<input type="checkbox"/> Auto-user lookup using call setup information	
<input checked="" type="checkbox"/> Auto-user assignment using call setup information	
Default User Identification:	
User ID:	1234
Privilege Level:	0
DNIS/DID information:	
<input type="checkbox"/> Use DNIS/DID information as dialed number	
<input type="button" value="Change"/>	

Fig. 88

00527920-031700

Change AutoForward Service Settings

Call Address Settings:

Country Code: 1

Area Code: 416

Local Number: 7360901

☒ Enable Voice Prompt

Voice Prompt: Greeting

OK Cancel

8902

Fig. 89

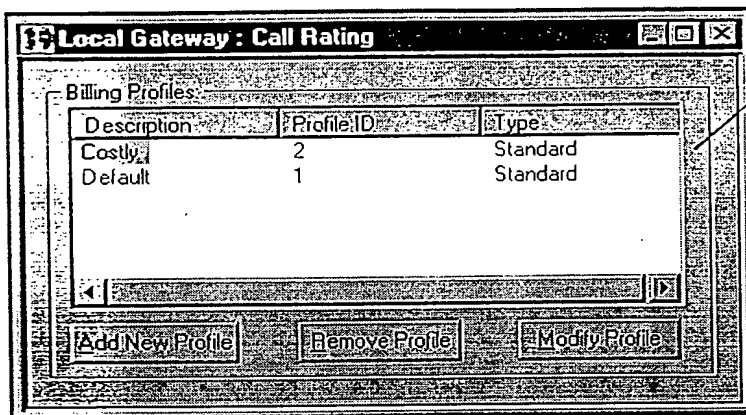


Fig. 90

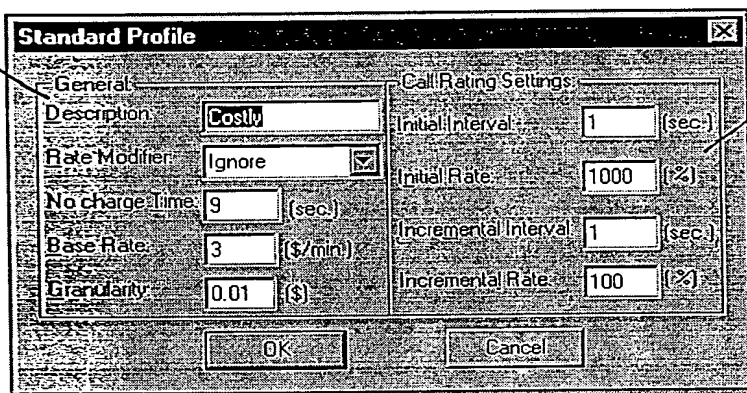


Fig. 91

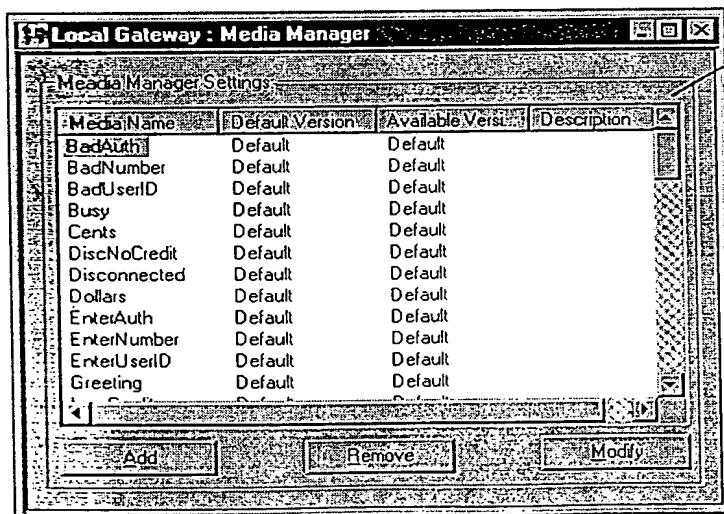


Fig. 92

9104

004100 02642560

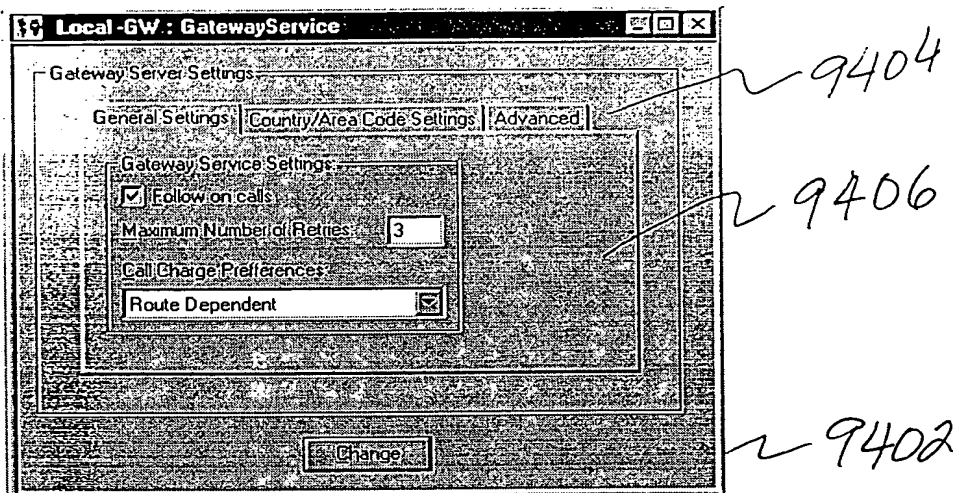


Fig. 94

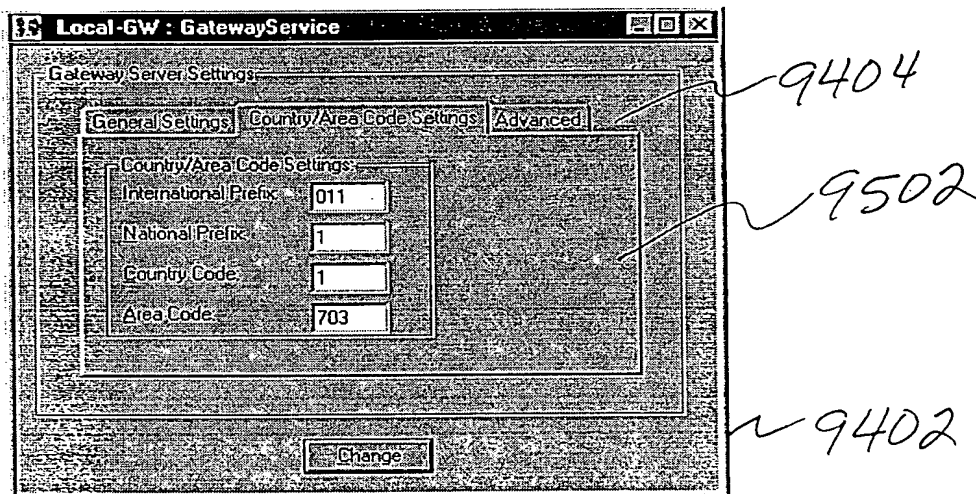


Fig. 95

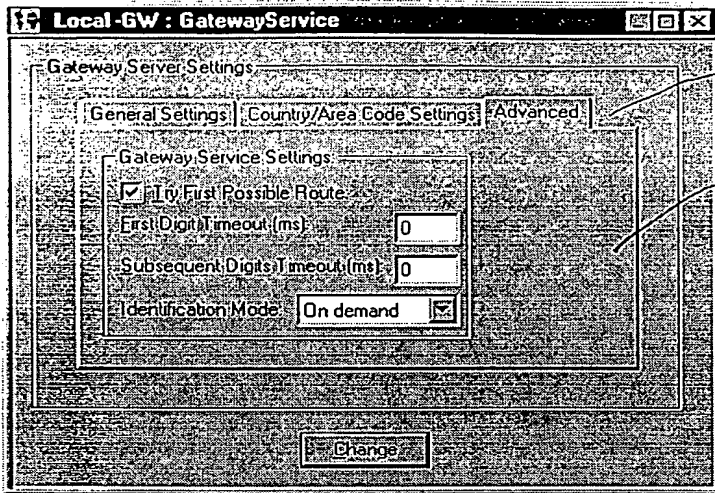


Fig. 96

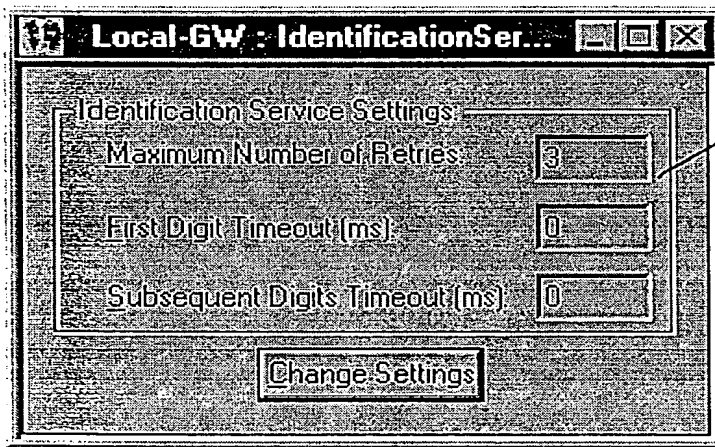
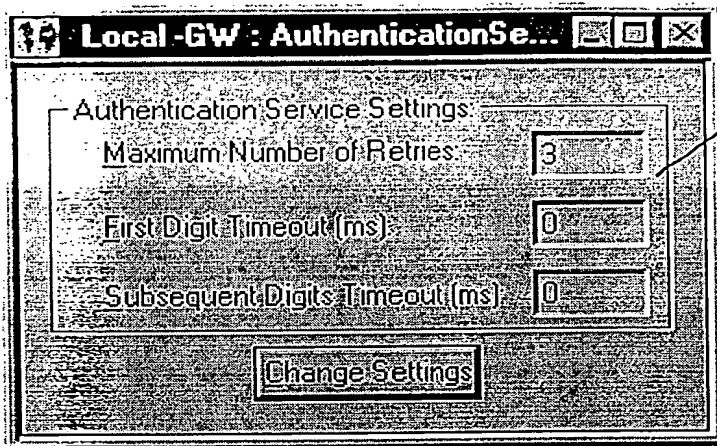


Fig. 97



9804

9802

Fig. 98

00/TEO" 026/2560

Routing : E.164 Translation

Synchronization mode:
 Change

Country/Area codes:

Country Name	Country Code	Address Patterns
Algeria	213	213 AA nnnnnnnn
Argentina	54	54 1 nnnnnnnn , 54 51 nnnnnn
Australia	61	61 A nnnnnnnn
Austria	43	43 512 nnnnnnnn , 43 662 nnnn
Bangladesh	880	880 AA nnnnnnnn
Belgium	32	32 A nnnnnnnn
Bosnia-Herzogo...	387	387 AA nnnnnnnn
Brazil	55	55 AA nnnnnnnn
Chile	56	56 2 nnnnnnnn , 56 32 nnnnnnn
China	86	86 10 nnnnnnnn , 86 20 nnnnnn

Add Remove Modify

9904

9906

9902

10004

Fig. 99

Country Code 1 Settings

☐ General ☒ Address List

Country/Code Settings:

Country Name(s):

Country Code:

OK Cancel

10006

10002

Fig. 100

00527920-031700

Country Code 1 Settings

General | Address List

List of pattern addresses:

Country	Area Co.	Local Number	Extension
1	AAA	nnnnnnnnn	

Add Remove Props

OK Cancel

~10004

~10102

~10002

Fig. 101

New Address

Address | Extra Settings

E164 Address Settings

Country Code: 1

Area Code: AAA

Phone Number: nnnnnnnnn

Extension:

OK Cancel

~10204

~10206

~10202

Fig. 102

E.164: +1 (703) NNNNNNN Properties

Addresses | General | Export | Timing | Routing Access

☒ Use Timing

Location: ☒ Use Local Time

Time Zone: GMT ☒

Allow Usage Only at these times:

From: Mon 12:00 To: Fri 18:00

Add Change Remove

OK Cancel

10304

10602

10302

Fig. 106

E.164: +1 (703) NNNNNNN Properties

Addresses | General | Export | Timing | Routing Access

Routing Access Rules

Rating	Rat	Call Charging	Restri	Requirem
Standard	0	Debit/Credit	NO	UserID=45
Standard	0	Route Dep...	NO	IsIdentified
Standard	0	Debit	NO	GroupID...
Standard	0	No Billing	NO	UserMin...

Add Remove Modify

OK Cancel

10304

10702

10302

Fig. 107

09527920:031700

New GW : Routing

General Settings

Cache Timeout: 86400 (seconds)

Dynamic routing usage: Use if no cached routes available

Error Log File: RMErrLog

Change Settings

Route Ordering

Address
Cost Estimate
Preference
Quality of Service
Static Routes

Change

Routing Servers

Server Name	Status
TestServer1	Disconnected

Add
Properties
Remove

Fig. 110

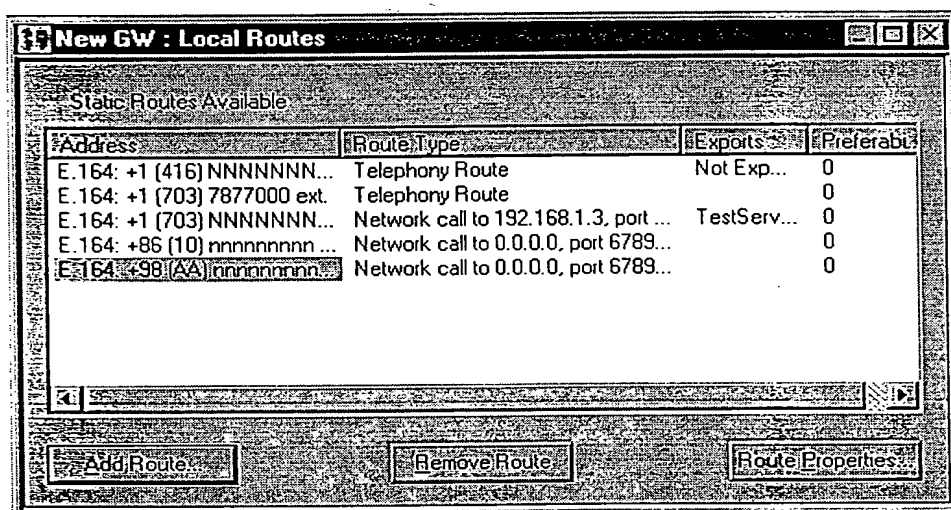


Fig. 111

Fig. 112

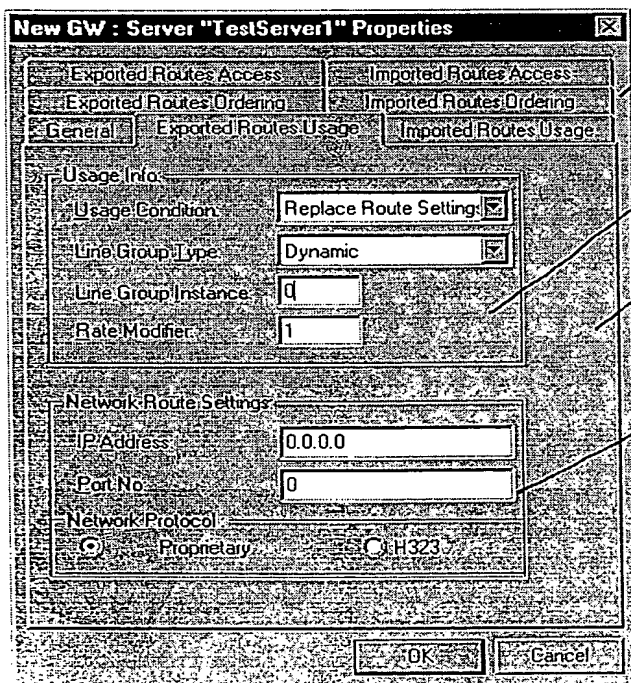


Fig. 113

00/TEO-026/2560

New GW : Server "TestServer1" Properties

General | Exported Routes Usage | Imported Routes Usage | 11204

Exported Routes Ordering | Imported Routes Ordering

Imported Routes Access | Exported Routes Access

Usage Condition: Retain Route Settings ☒

Floating Access Rules: 11402

Rating	Rating	Call Ch	Restric	Requir

11202

Add Remove Modify

OK Cancel

Fig. 114

00527920-031700

New GW : Server "TestServer1" Properties [X]

Exported Routes Access	Imported Routes Access
General	Exported Routes Usage
Exported Routes Ordering	Imported Routes Ordering

Ordering Info

Usage ☒ Retain Route Settings

Preferability:

Cost Estimate:

Quality of Service:

OK Cancel

~11204

~11502

~11202

Fig. 115

09527920-031700

New GW : Server "TestServer1" Properties

Exported Routes Access	Imported Routes Access
Exported Routes Ordering	Imported Routes Ordering
General	Exported Routes Usage
Imported Routes Usage	

Routes Info:

☒ Telephony Routes Accepted

☒ Network Routes Accepted

Usage Info:

Usage Condition: **Retain Route Settings** ☒

Rate Modifier:

OK Cancel

11204

11604

11602

11606

11202

Fig. 116

00527900.031700

New GW : Server "TestServer1" Properties [X]

General | Exported Routes Usage | Imported Routes Usage
Exported Routes Ordering | Imported Routes Ordering
Exported Routes Access | Imported Routes Access

Usage Condition: Retain Route Settings ☒

Routing Access Rules:

Rating	Rating	Call Ch	Restric	Require

◀ ▶

Add Remove Modify

OK Cancel

~ 11204

~ 11702

~ 11202

Fig. 117

00527920-03100

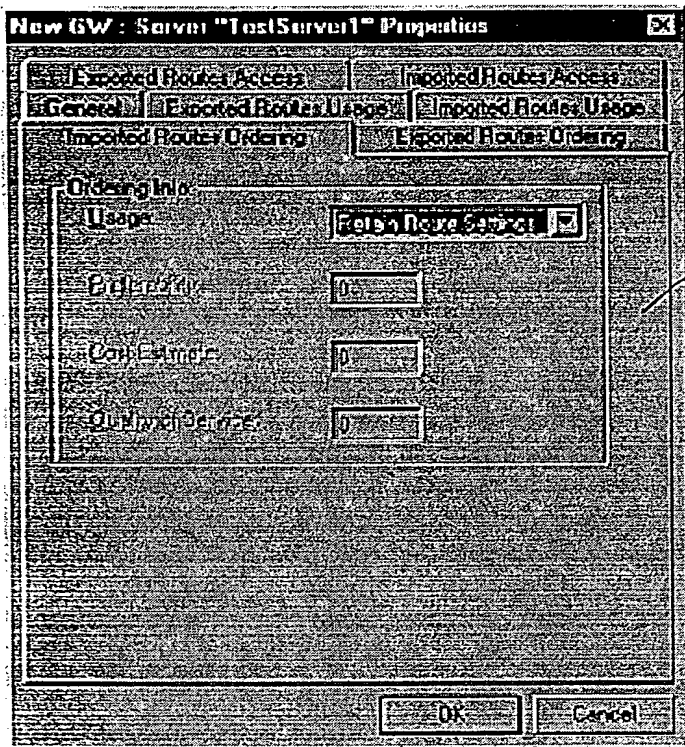


Fig. 118

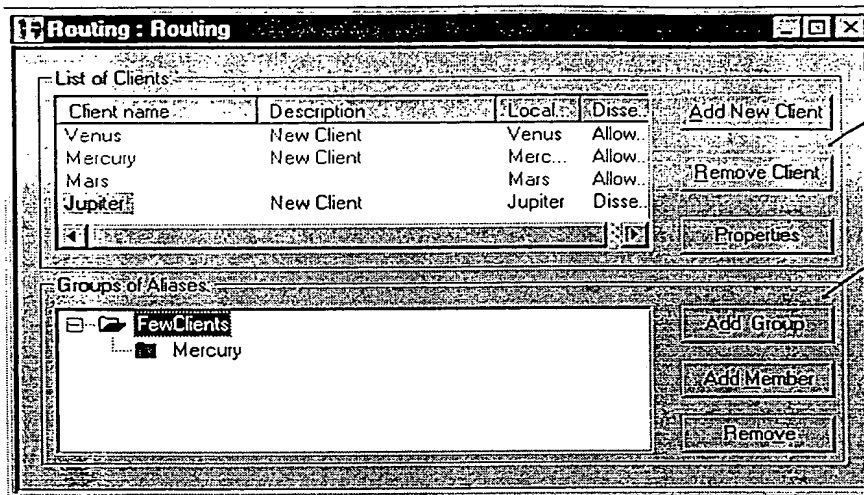


Fig. 119

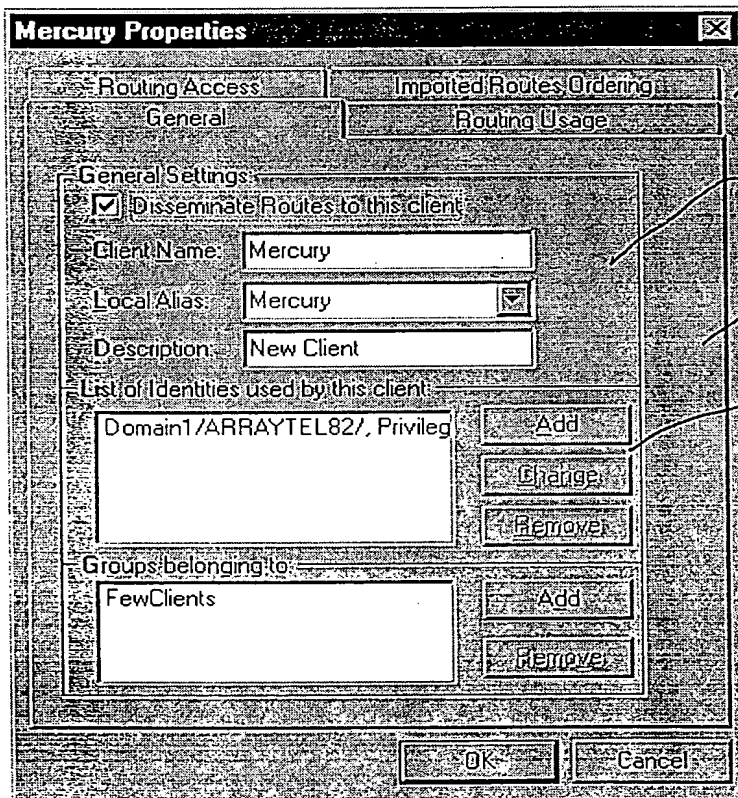


Fig. 120

Mercury Properties

Ordering Information Routing Usage
Routing Access Exported Routes Ordering

Usage Condition ☒ Replace server settings

Routing Access Rules

Rating	Rating	Call Ch...	Restric...	Requir...
Standard	0	No Billi...	NO	

~12104

~12106

~12102

Fig. 121

Routing : Exported Routes

Exported routes

Address	Route Type	Exported by	Time Received
E.164: +1 (703) NNN...	Network call to 192.16...	Mercury	99 Aug 18 19:22
E.164: +1 (416) NNN...	Network call to 0.0.0.0....	Mercury	99 Aug 18 19:22
E.164: +1 (703) 7877...	Network call to 0.0.0.0....	Mercury	99 Aug 18 19:22

Refresh

Fig. 122

Routing : Static Routes

Static Routes Available

Address	Route Type	Preference
E.164: +1(933) NNNNNNNN ext.	Telephony Route	0
E.164: +1 (416) 1NNNNNNN ext.	Telephony Route	0
E.164: +1 (416) NNNNNNNN ext.	Telephony Route	0
E.164: +1 (703) 7877000 ext.	Telephony Route	0
E.164: +1 (703) nnnnnnnn ext.	Telephony Route	0
E.164: +1 (777) NNNNNNNN ext.	Network call to 12.1.236.82, port ...	0

Fig. 123

✓ 12302

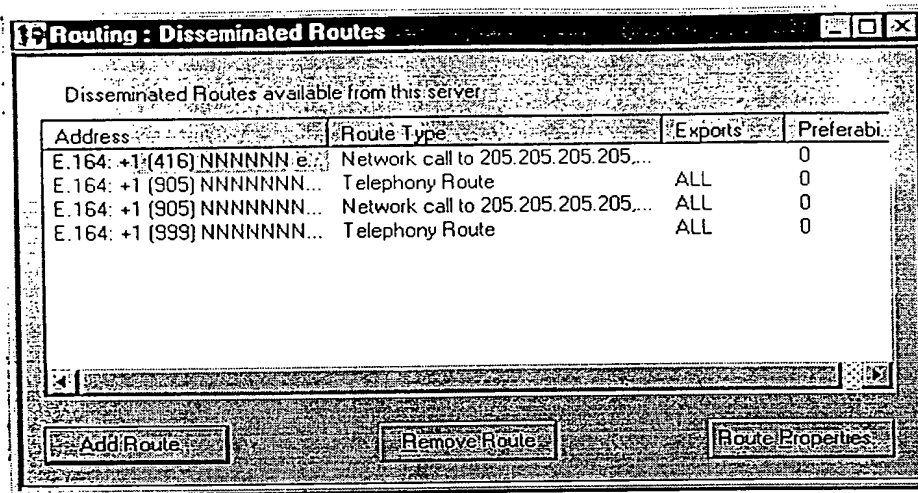


Fig. 124

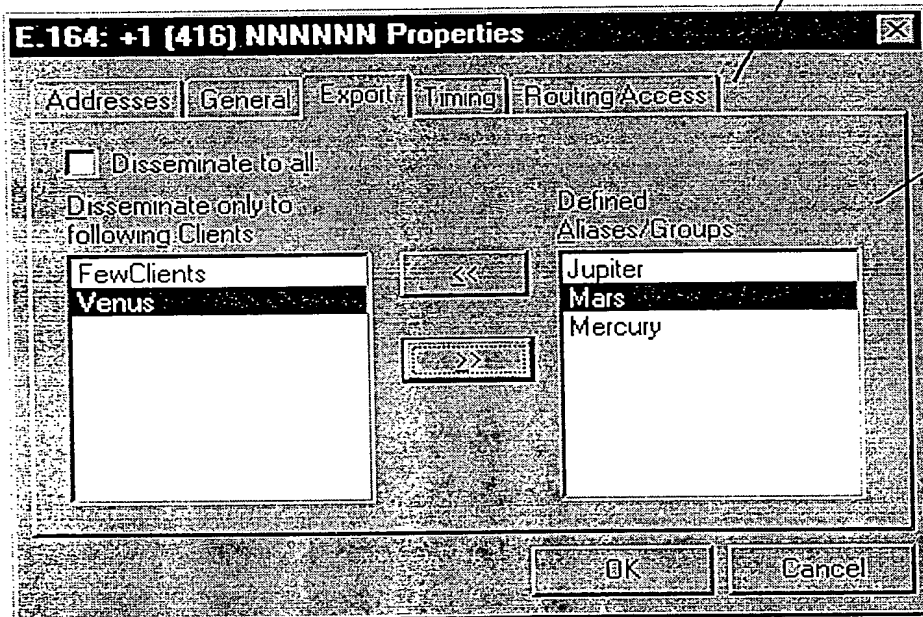
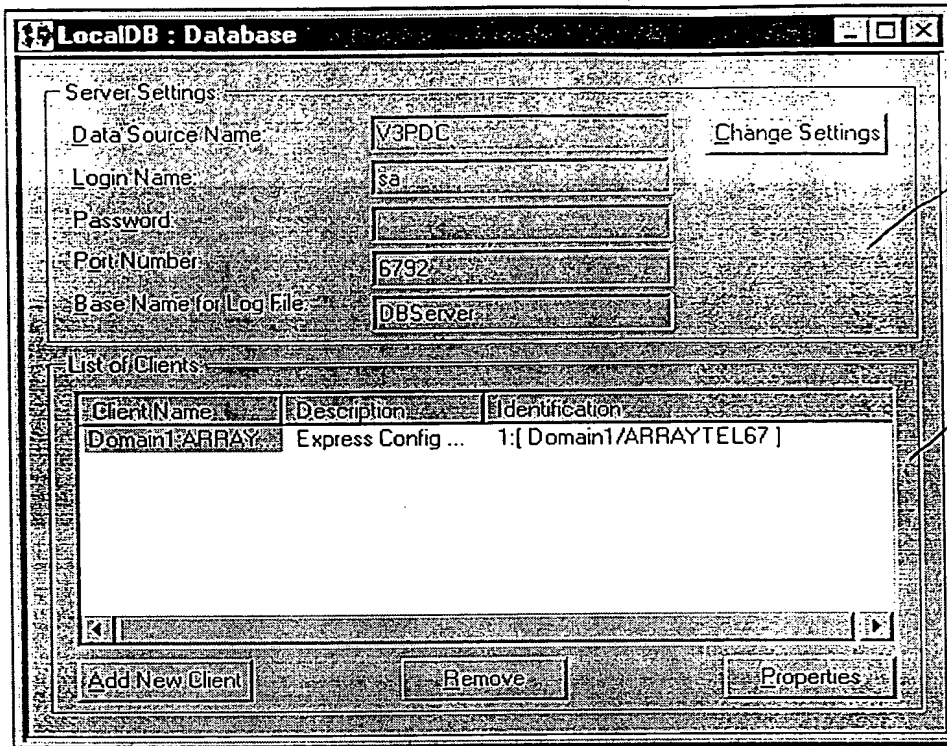


Fig. 125

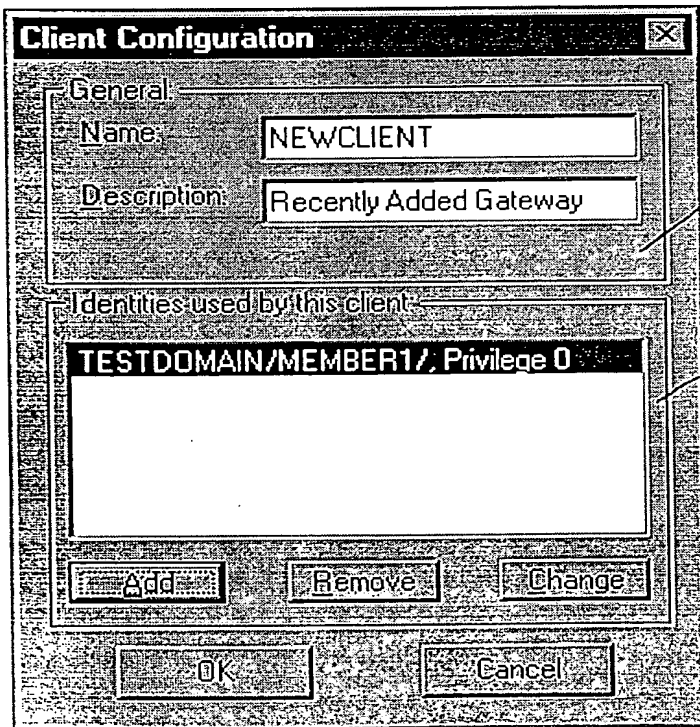
0047ED 02622560



The 'LocalDB : Database' window is divided into two main sections. The top section, 'Server Settings', contains five input fields: 'Data Source Name' (V3PDC), 'Login Name' (sa), 'Password' (empty), 'Port Number' (6792), and 'Base Name for Log File' (DBServer). A 'Change Settings' button is located to the right of the 'Data Source Name' field. The bottom section, 'List of Clients', features a table with three columns: 'Client Name', 'Description', and 'Identification'. The table contains one entry: 'Domain1\ARRAY', 'Express Config ...', and '1: [Domain1\ARRAYTEL67]'. Below the table are three buttons: 'Add New Client', 'Remove', and 'Properties'.

Client Name	Description	Identification
Domain1\ARRAY	Express Config ...	1: [Domain1\ARRAYTEL67]

Fig. 128



The 'Client Configuration' window has two sections. The 'General' section contains two input fields: 'Name' (NEWCLIENT) and 'Description' (Recently Added Gateway). The 'Identities used by this client' section contains a list box with one entry: 'TESTDOMAIN/MEMBER1/, Privilege 0'. Below the list box are three buttons: 'Add', 'Remove', and 'Change'. At the bottom of the window are 'OK' and 'Cancel' buttons.

Identities used by this client
TESTDOMAIN/MEMBER1/, Privilege 0

Fig. 129

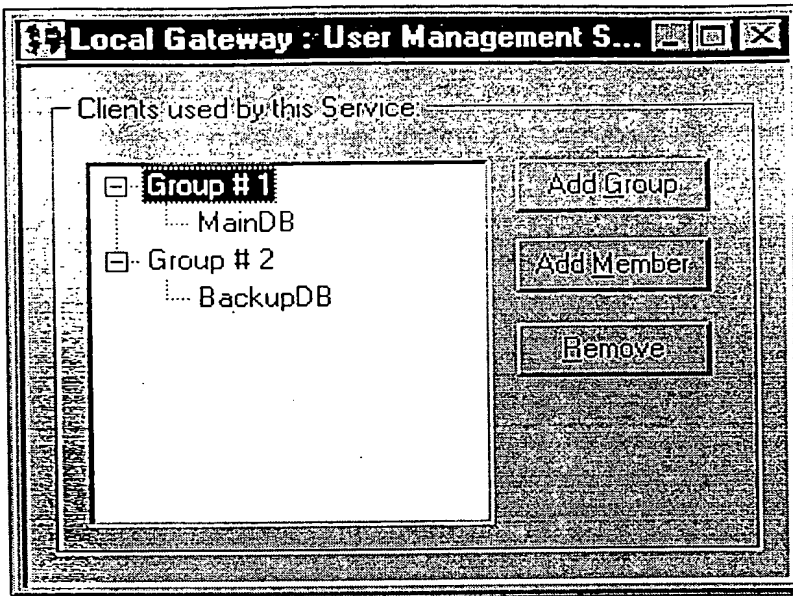


Fig. 130

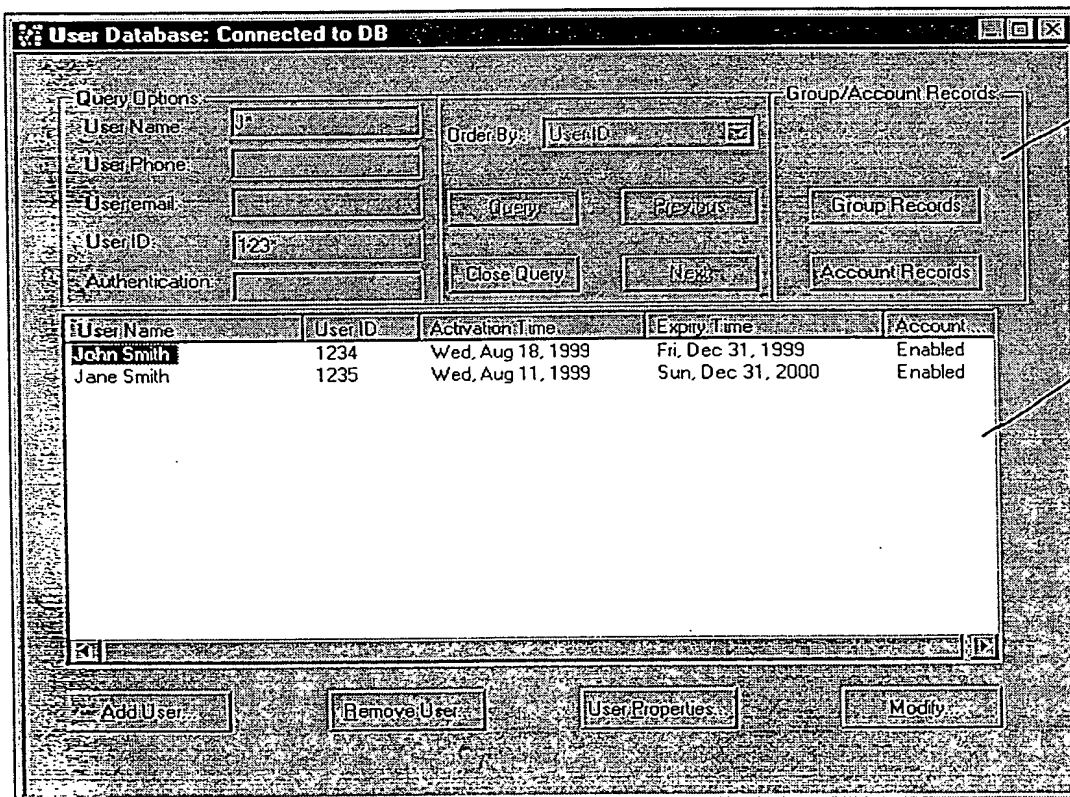


Fig. 131

00527920-031700

Add New User

Caller ID Authentication | Account Record Status | Parent Group

Identification | Permissions | Caller ID Ident

Identification:

Name: John Smith

Numeric ID: 1234

Authentication:

☒ Not Required ☐ Required ☐ Use Group

Numeric Authentication:

Language Pref: English

Email Address: John.Smith@arraytel.com

Home phone: 1(703)555-1234

Online Announcements:

☒ Use Group ☐ Debt Balance ☐ Time Left

OK Cancel

Fig. 132

John Smith Properties

Caller ID Authentication | Account Record Status | Parent Group

Identification | Permissions | Caller ID Ident

Account Status:

☒ Enable ☐ Disable ☐ Use Group

Permissions:

Normal Privilege: 1

Authenticated Privilege: 2

Concurrent Usage: 1

☐ Use Group Activation Time:

YY MM DD HH:MM

99 8 18 22:00

☐ Use Group Expiry Time:

YY MM DD HH:MM

99 12 31 23:00

Close

Fig. 133

004780-02642560

John Smith Properties [X]

Caller ID Authentication | Account Record Status | Parent Group |

Identification | Permissions | Caller ID Ident

Identification Caller ID

Caller ID strings

Caller ID Str.	Lookup Type
7877000	Caller ID / A...

New String

7877000

Add

Remove

OK Cancel

13204

13402

13202

Fig. 134

John Smith Properties

Identification | Permissions | Caller ID/Ident

Caller ID/Authentication | Account Record Status | Parent Group

Authentication Caller ID

Caller ID strings:

Authentication	Lookup Type
192.168.1.3	IP address o...

New String

192.168.1.3

Add

Remove

OK Cancel

Fig. 135

John Smith Properties

Identification Permissions Caller ID Ident

Caller ID Authentication Account Record Status Parent Group

Account Record Description

Change Settings

John's Account Select New

Detach Account

Current Settings

Account ID	1234
Has Debit Record	YES
Has Credit Record	NO
Rules	
Restrictions	
Rating Profile	0
Max simultaneous connections	1
Billing Exempted Enable	No
Billing Credit Enable	No
Billing Debit Enable	Yes

OK Cancel

Fig. 136

John Smith Properties

Identification | Permissions | Caller ID Ident.

Caller ID/Authentication | AccountRecord/Status | Parent/Group

Group/Record Description

People named Smith

Select New

Detach Group

Current Settings

Group ID: 1234

Status: Enabled

Start Time: Thu, Aug 19, 1999

End Time: Thu, Aug 19, 1999

Account ID: 1234

Max simultaneous connections: 1

Language Pref: English

Normal Privilege: 1

Auth Privilege: 1

Description: 14656888

OK Cancel

Fig. 137

Group Record Query

Query Options:

Group ID: 1234

Account ID:

Starting Date:

Ending Date:

Order By: Group ID

Query

Previous

Close Query

Next

Account Records

Group ID	Account ID	Starting Date	Ending Date
1234	1234	Thu, Aug 19, 1999	Thu, Aug 19, 1999

Add New

Remove

Properties

Modify

Close

Fig. 138

1234 Change Settings

General | **Timing**

Group ID: 1234

Account ID: 1234 Select New
Detach Account

Privilege Level: 1

☐ Force Authentication

Authentication Level: 1

Max Concurrent Usage: 1

Account Status: ☒ Enable ☐ Disable

Language Pref.: English

Group Info: People named Smith

Locked By:

OK Cancel

13902

Fig. 139

[illegible]

Account Record Query

Query Options

Account ID:

Group ID:

User ID:

Billing Type:

Simultaneous Connections: ☐

Order By:

Account Records

Account ID	Debit Record	Credit Record	Rating Profile	Max Connect
1234	YES	NO	0	1
32131	YES	NO	0	1
213121	YES	NO	0	1

Fig. 140

004FE0 02622560

14104

1234 Change Settings

General | Profiles and Restrictions

General Settings

Account ID: 1234

☒ Has Debit Record

Balance: 10.00

Maximum Negative Debit: 0.00

Max Connections: 1

Account Info: John's Account

Locked by:

OK Cancel

14106

14102

Fig. 141

0047ED 02622560

1234 Change Settings

General Profiles and Restrictions

Profiles

Rating Profile ☐

Billing flags

☒ Enable Debit ☐ Enable Credit

☒ Enable Billing Exempted

OK Cancel

~14104

14202

~14102

Fig. 142

CDR: Connected to DB

Query Options

Time From: [MM-DD-YYYY] [hh:mm:ss]

Time To: [MM-DD-YYYY] [hh:mm:ss]

System Name: []

User Name: []

Call Address: []

Order By: [none] ☒

[Query] [Close Query] [Previous]

System Name	Inbound Int	Inbound Line	Outbound Int	Outbound Line	
BULKTEST:GW85	Network line gro...	Network line[29...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[30...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[30...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[32...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[32...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[35...	Unknown Type[-1]	Unknown Type[-1]	<input type="checkbox"/>
BULKTEST:GW85	Network line gro...	Network line[36...	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[45]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[45]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[38]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[38]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[38]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[38]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>
BULKTEST:GW85	Telephony line g...	Telephony line[45]	Unknown Type[-1]	Unknown Type[-1]	<input checked="" type="checkbox"/>

Fig. 143

Local Gateway : CDR Service

Clients used by this Service:

- Group # 0
 - MainDB
 - BackupDB

Add Group

Add Member

Remove

Fig. 144

0001-30.vsd/1

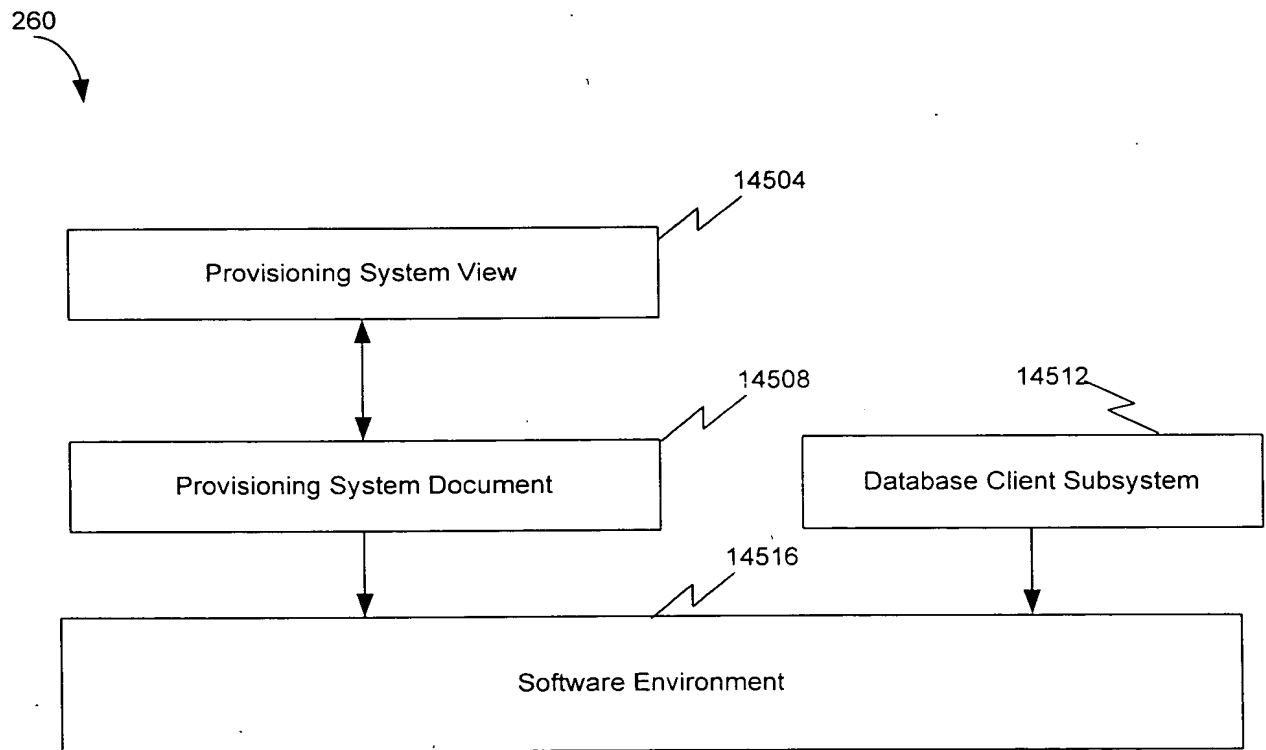


FIG. 145

0001-30.vsd/3

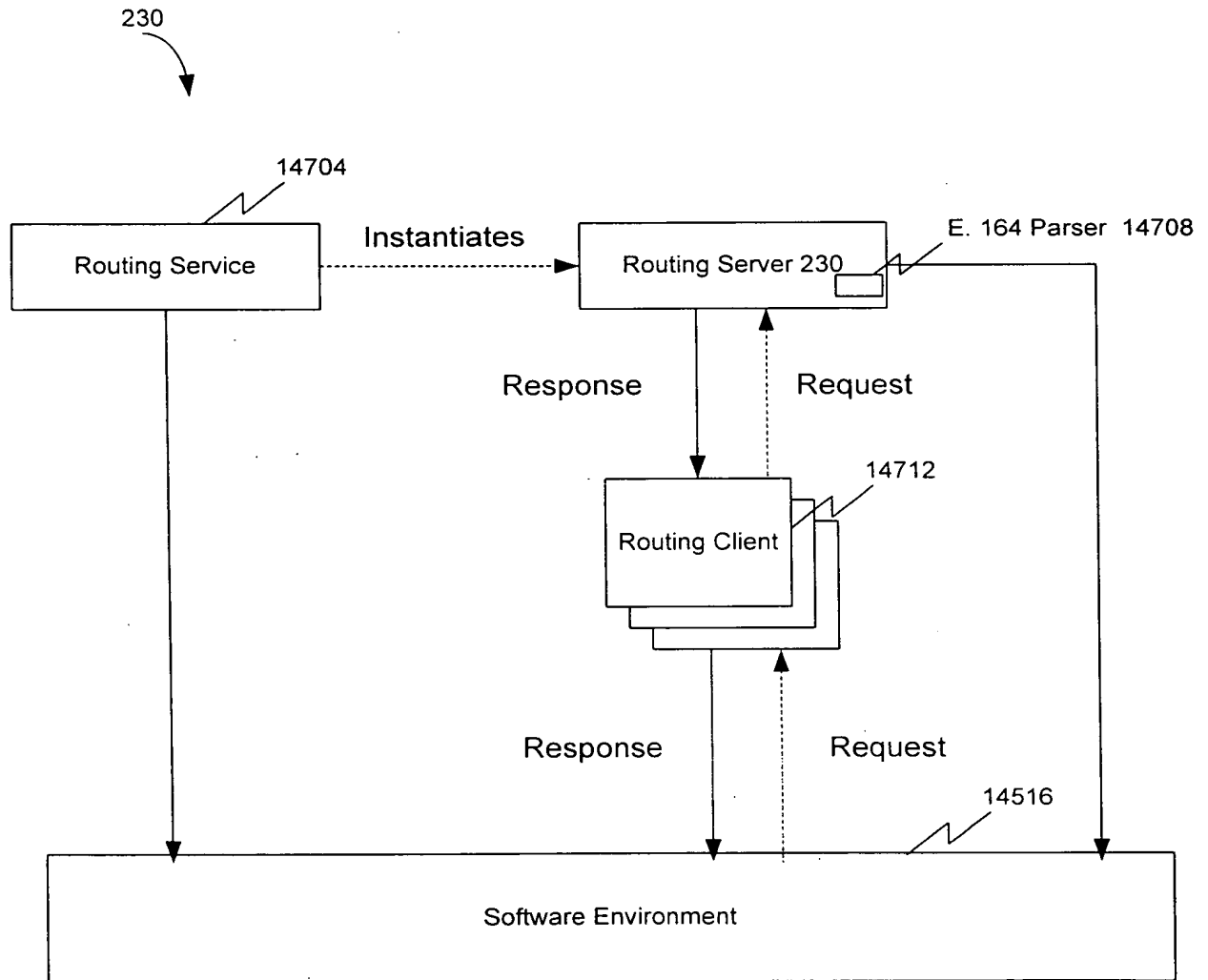


FIG. 147

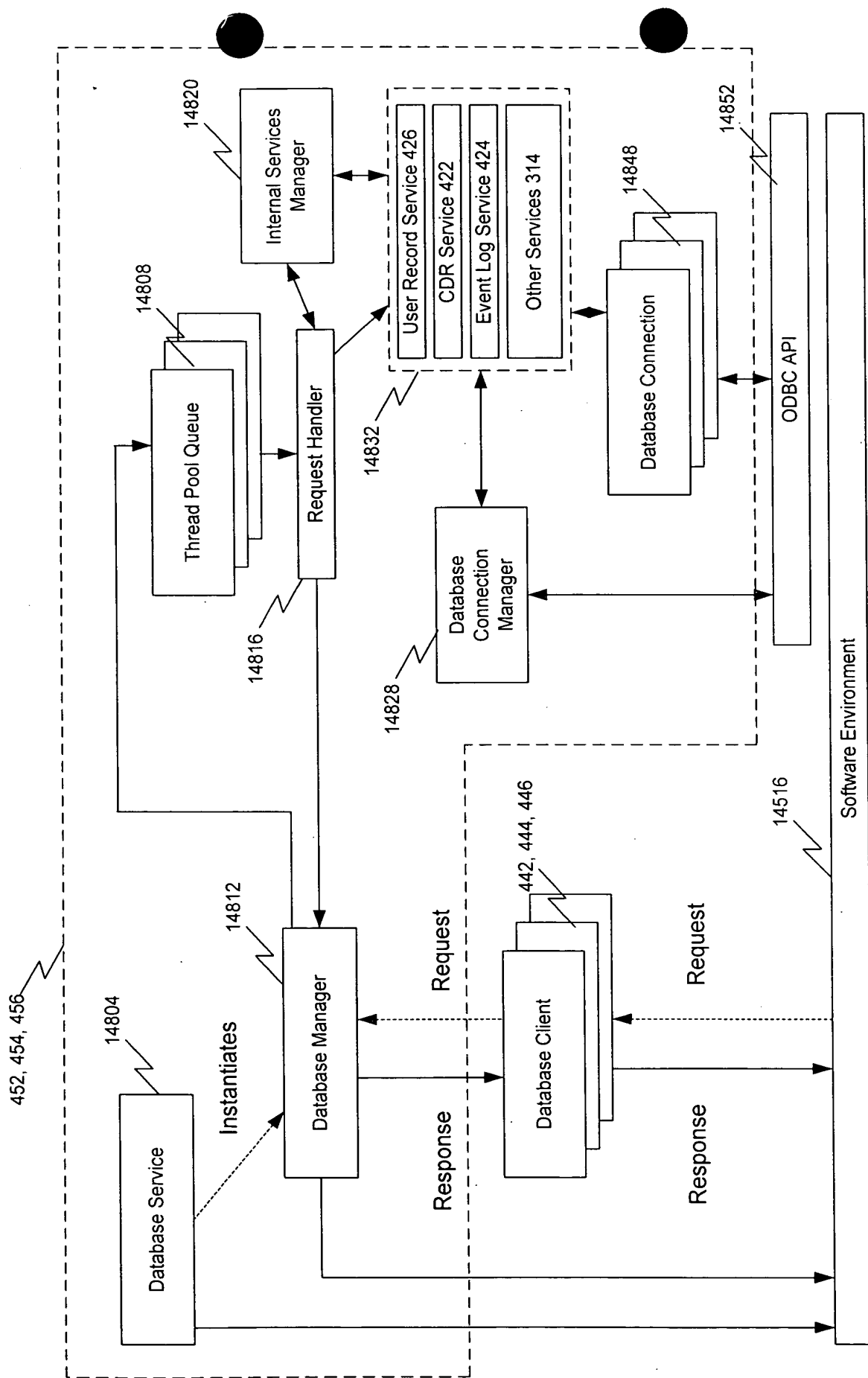


FIG. 148

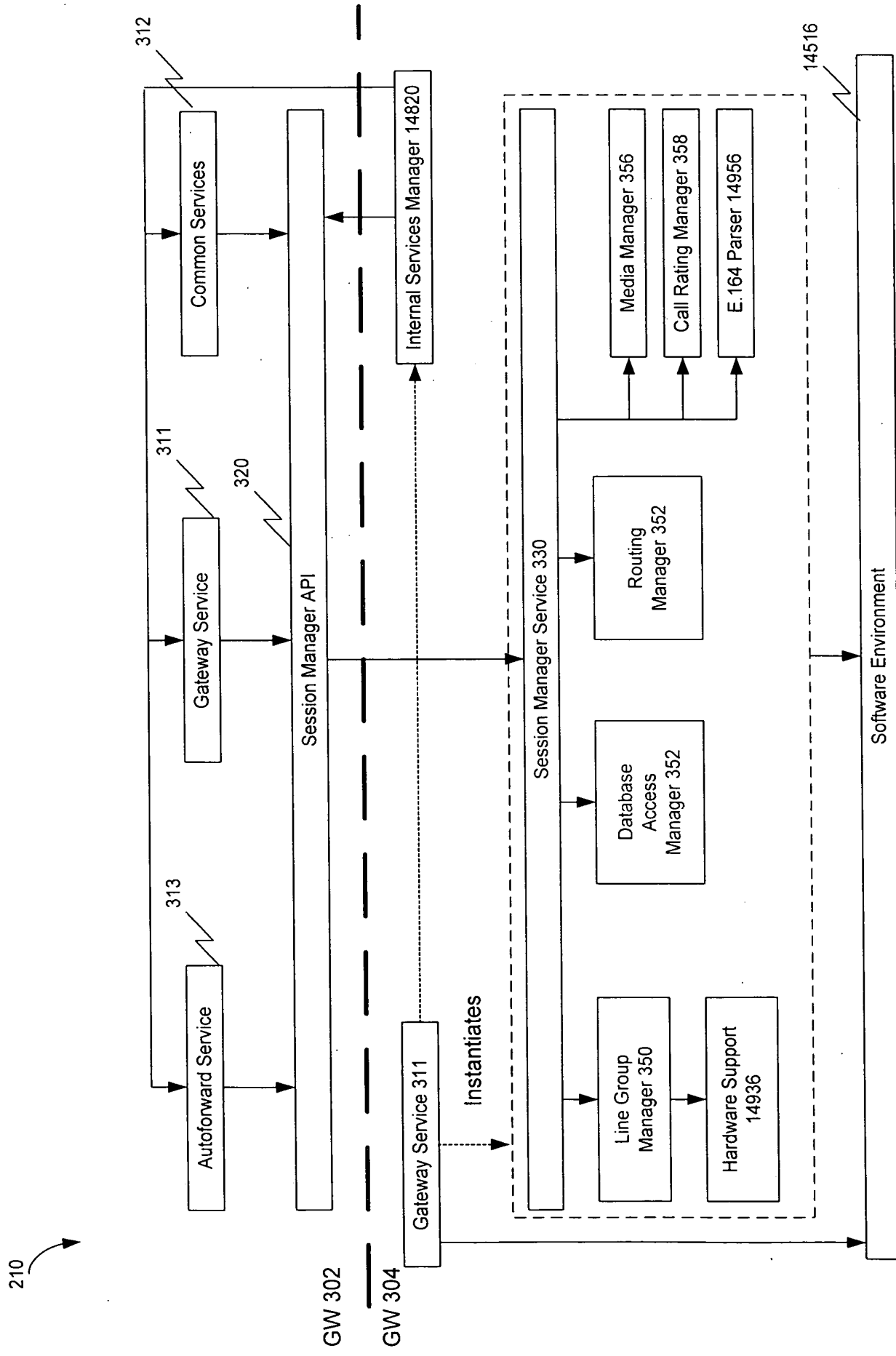


FIG. 149

15000

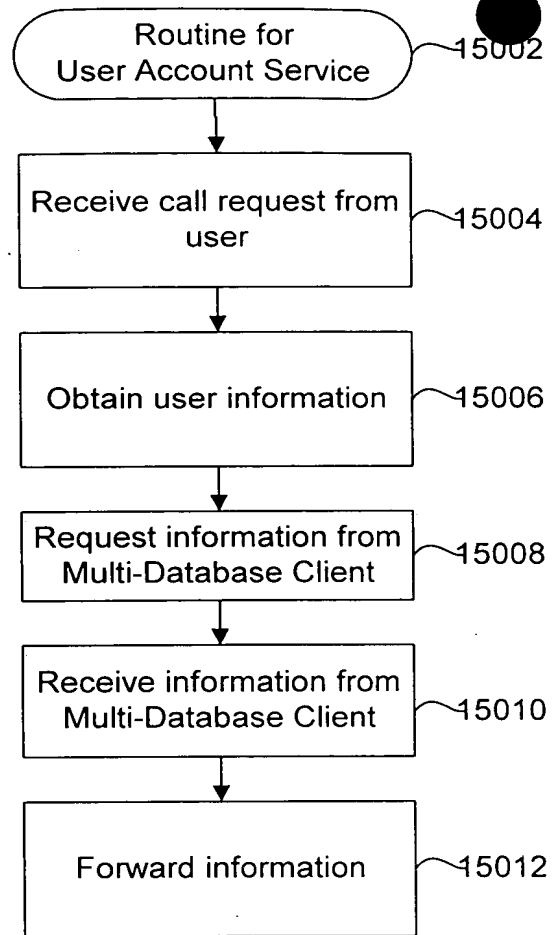


FIG. 150

15100

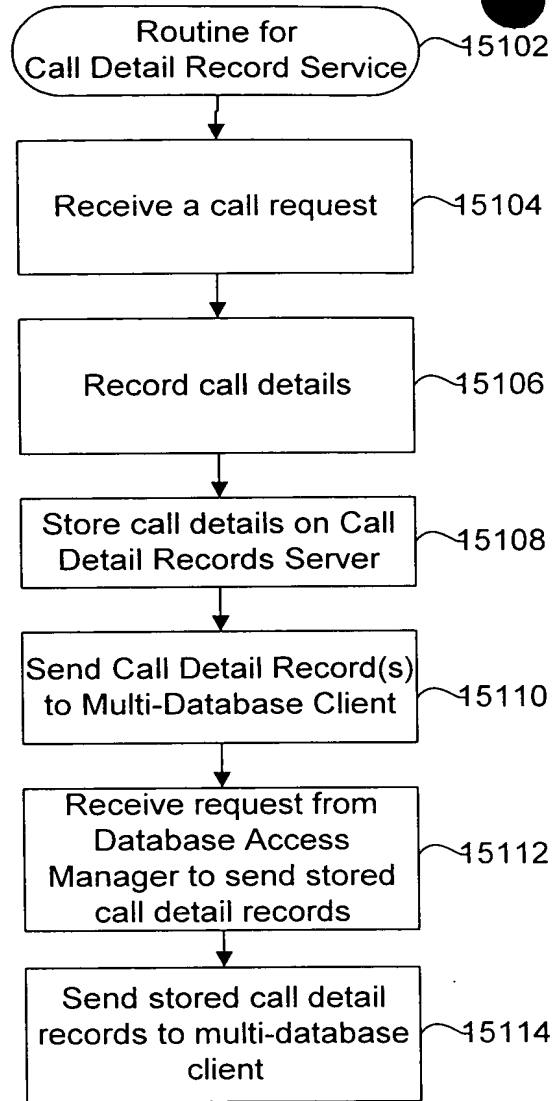


FIG. 151

15200

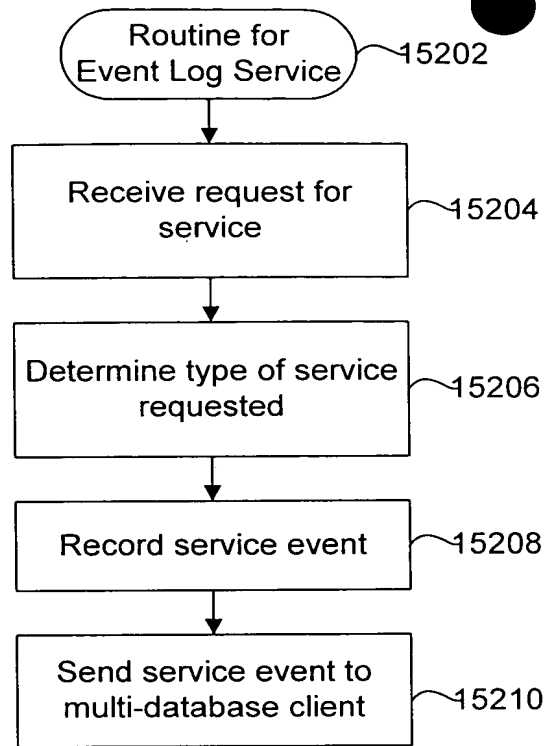


FIG. 152

0001-30.vsd/8

15300

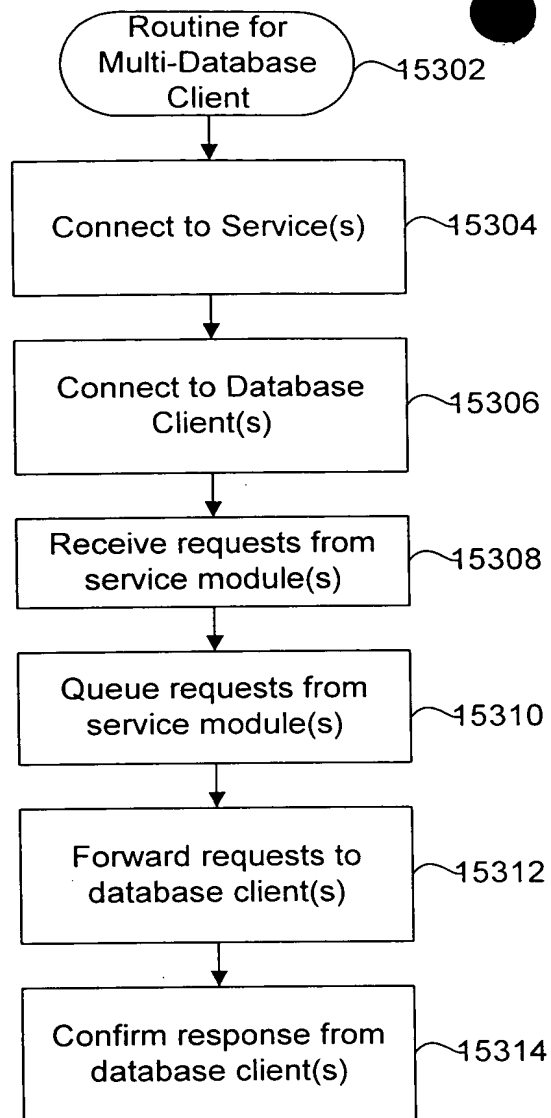


FIG. 153

15400

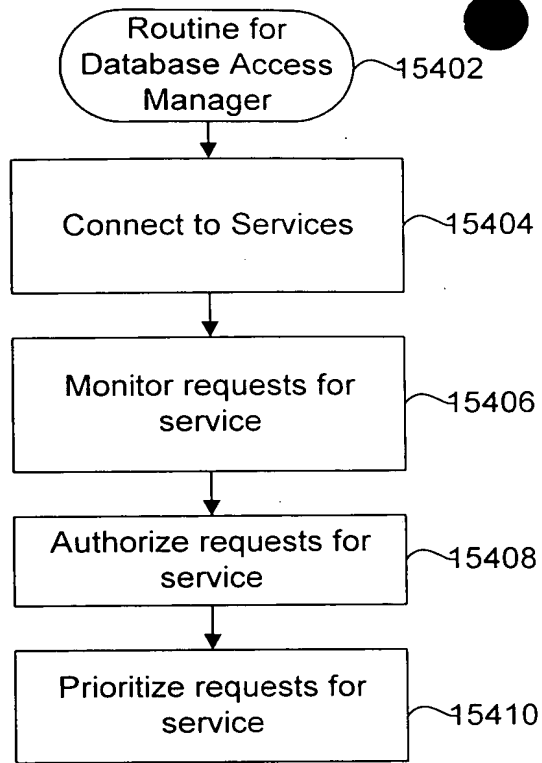


FIG. 154

15500

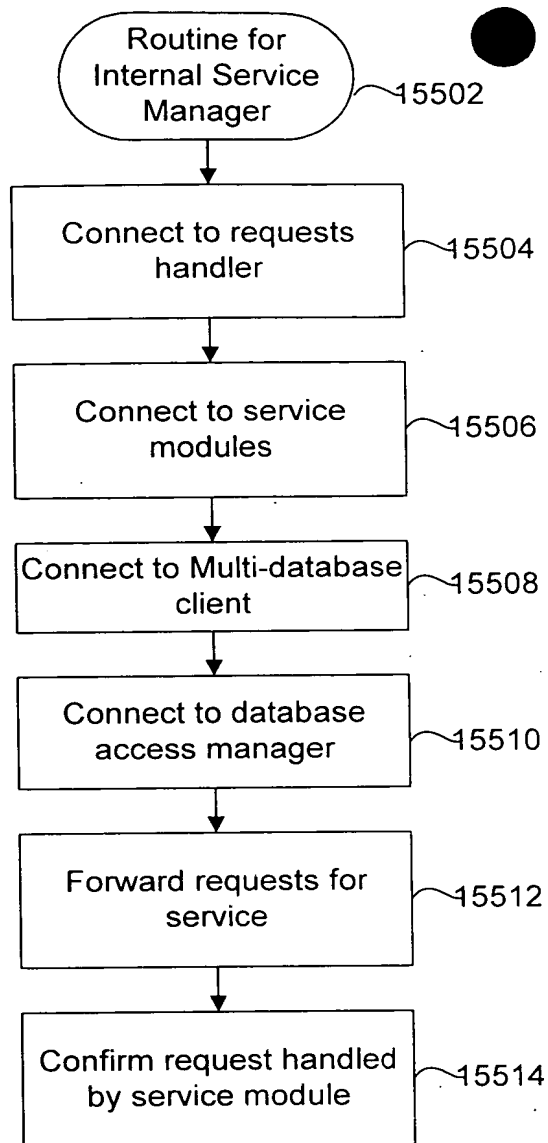


FIG. 155

15600

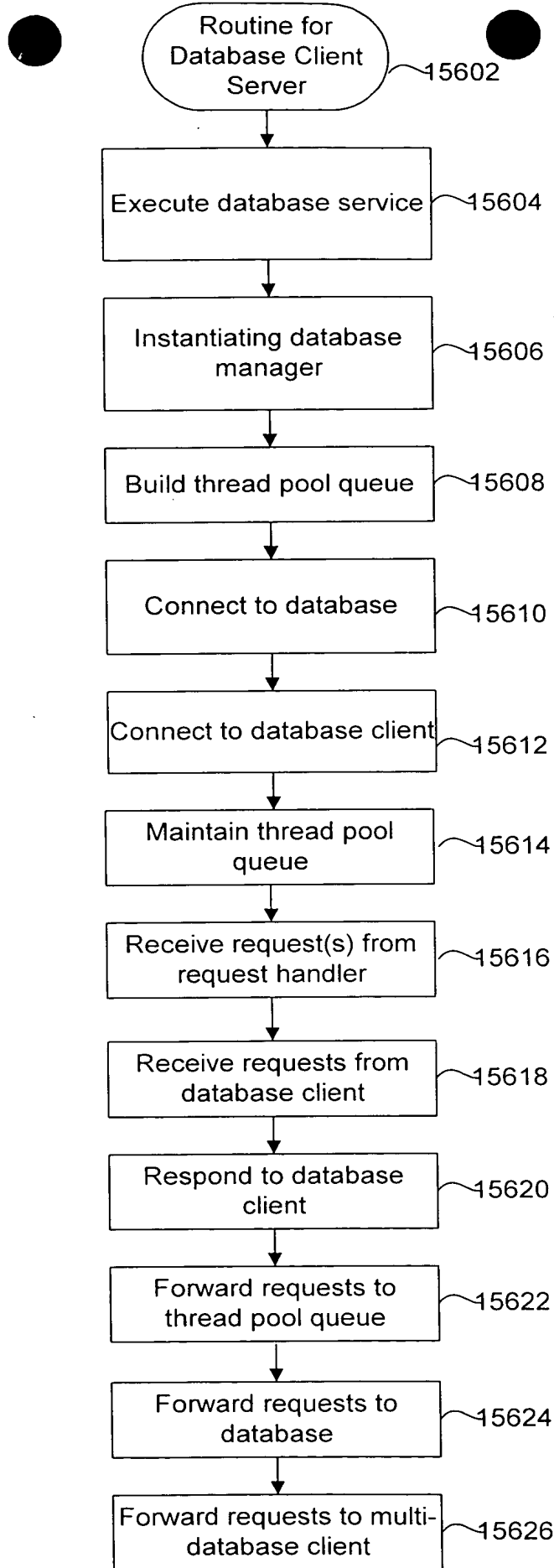


FIG. 156

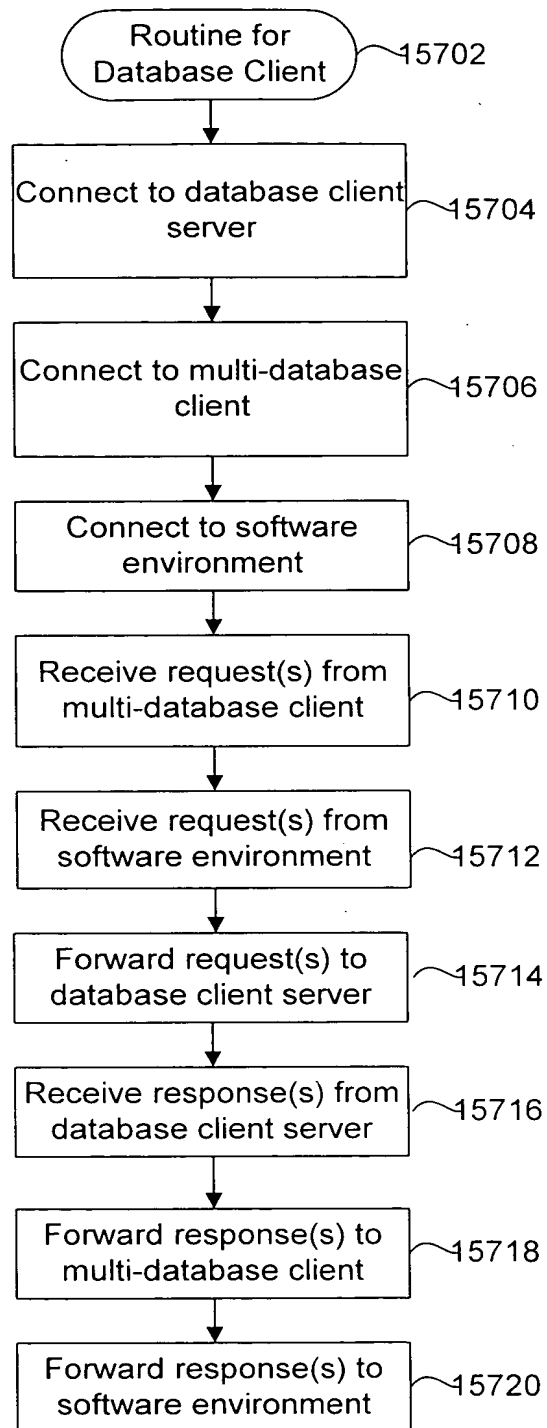


FIG. 157

15800

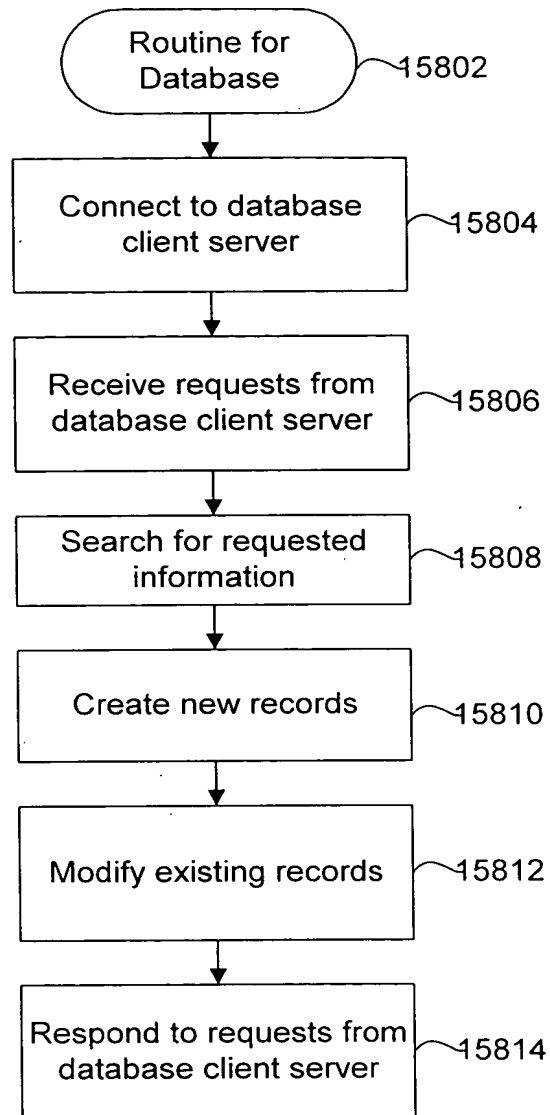


FIG. 158

15900

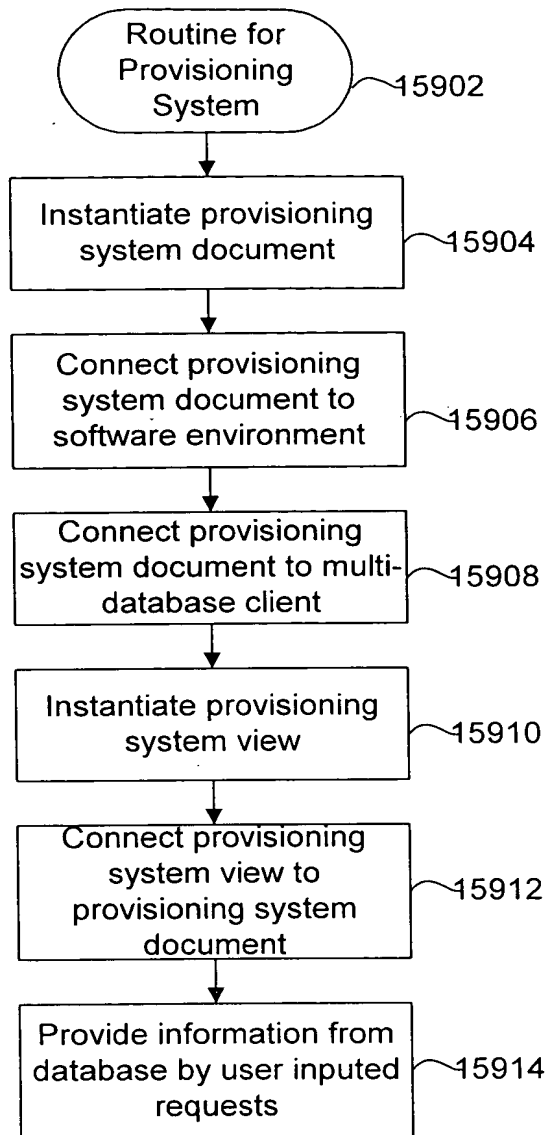


FIG. 159

16000

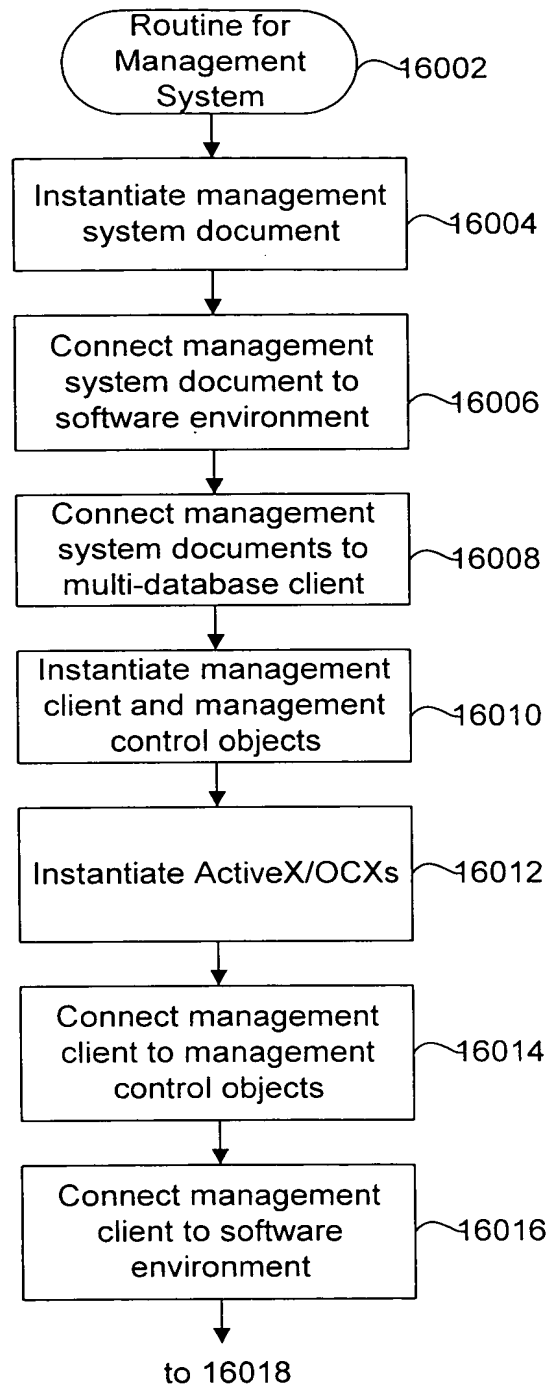


FIG. 160A

16000

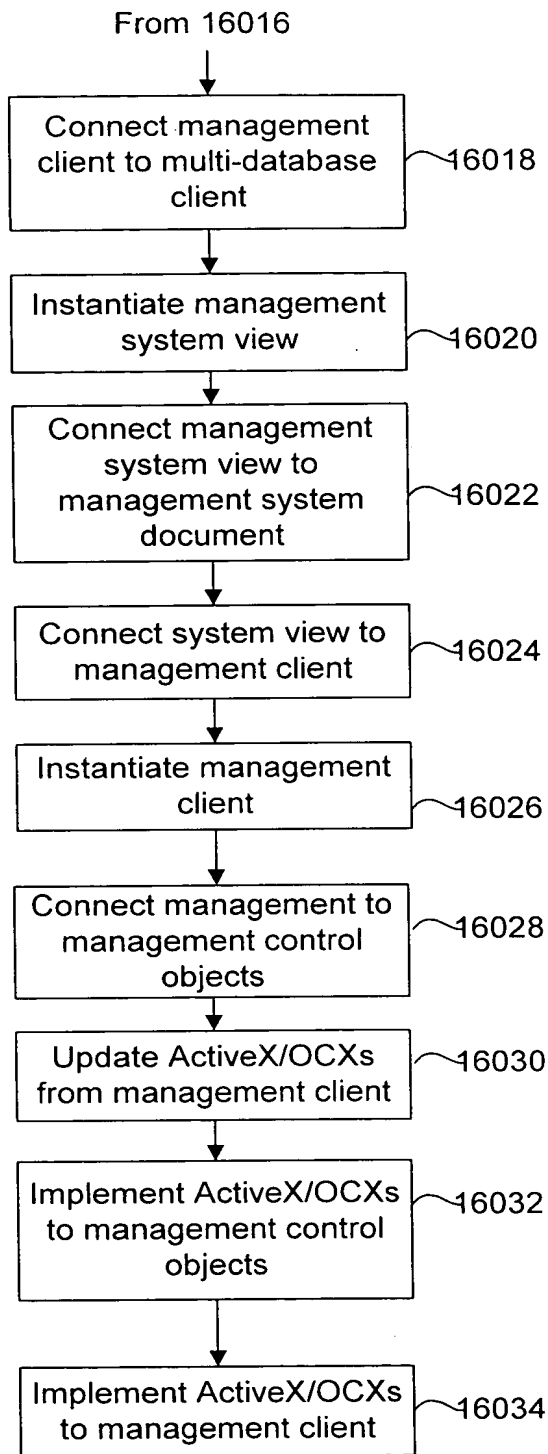


FIG. 160B

16100

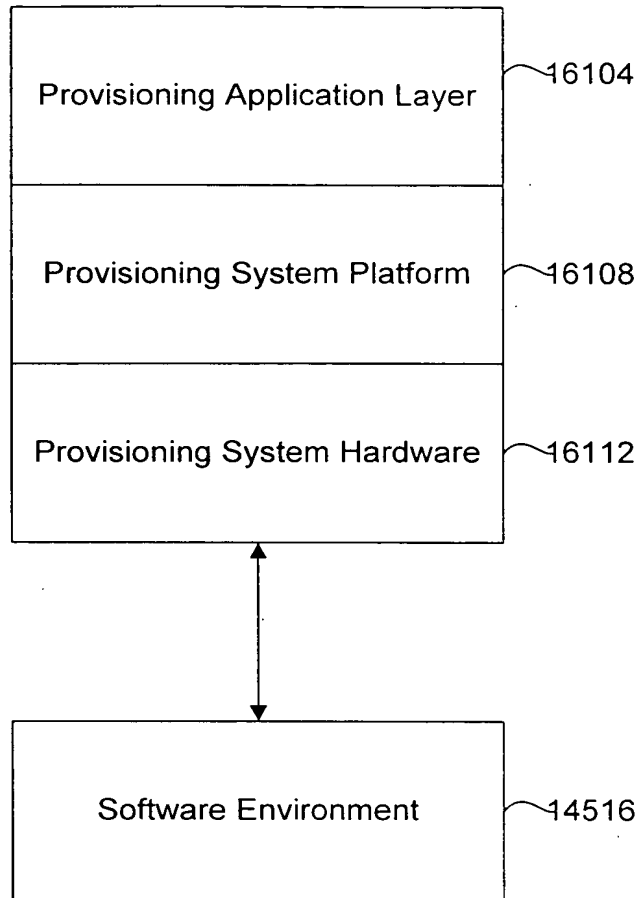


FIG. 161

16200

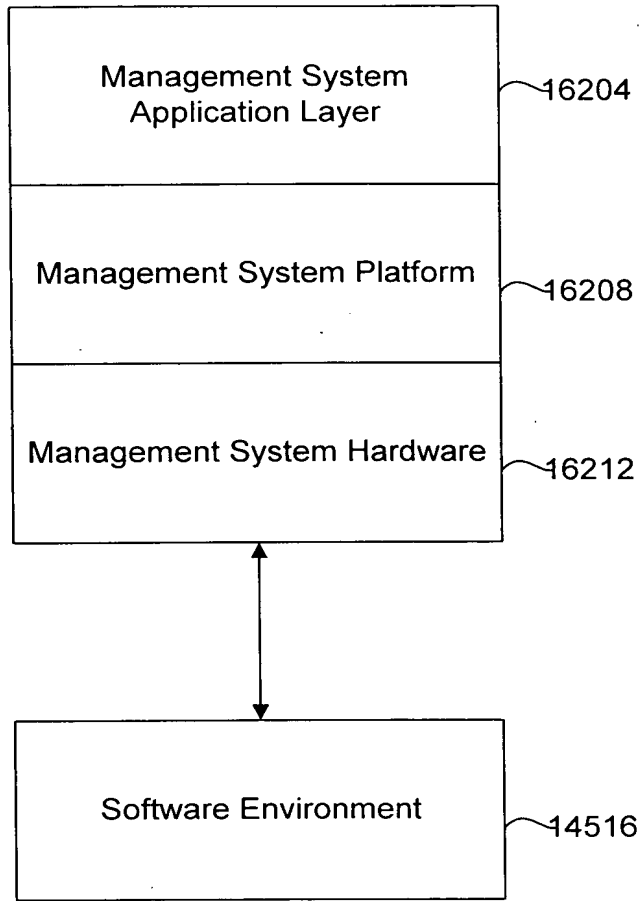


FIG. 162

16300

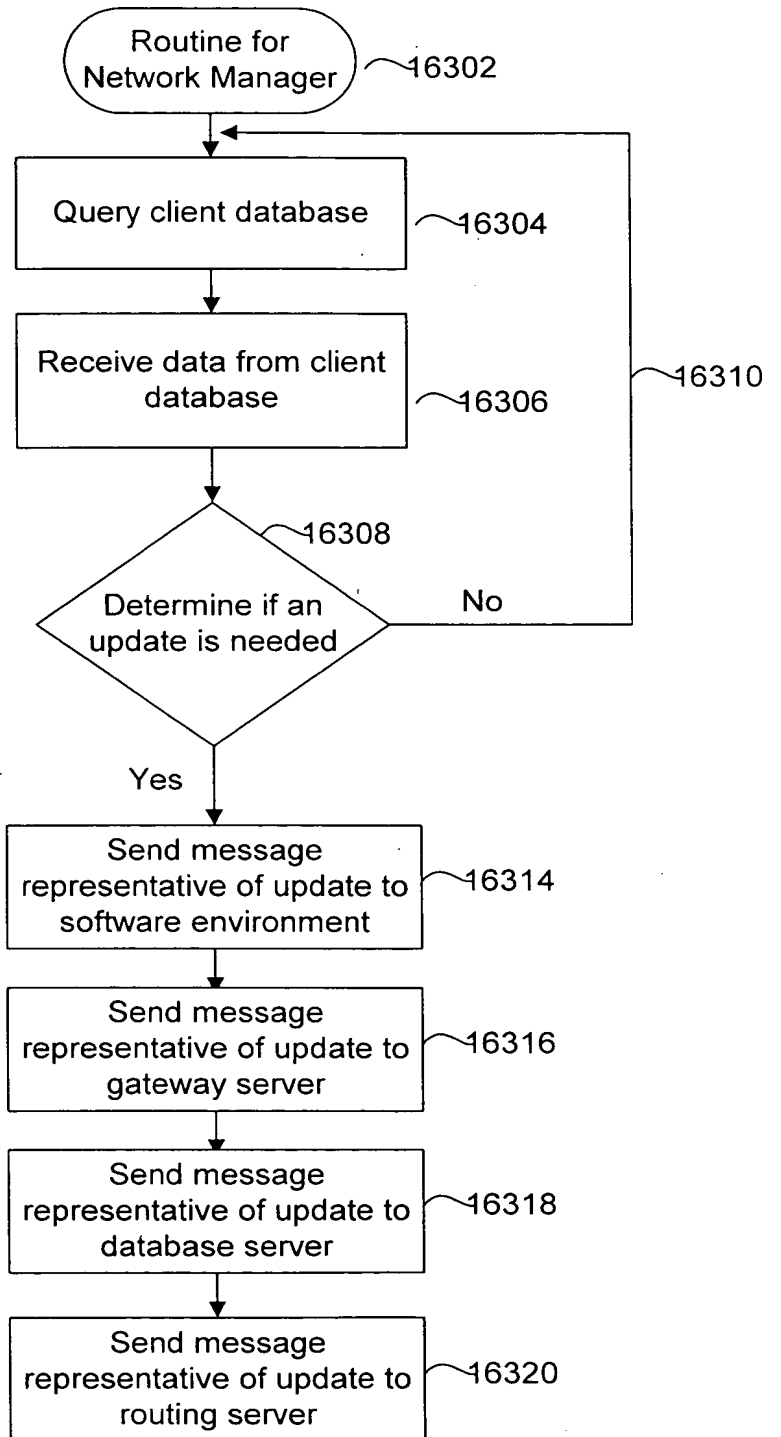


FIG. 163

0001-30.vsd/21

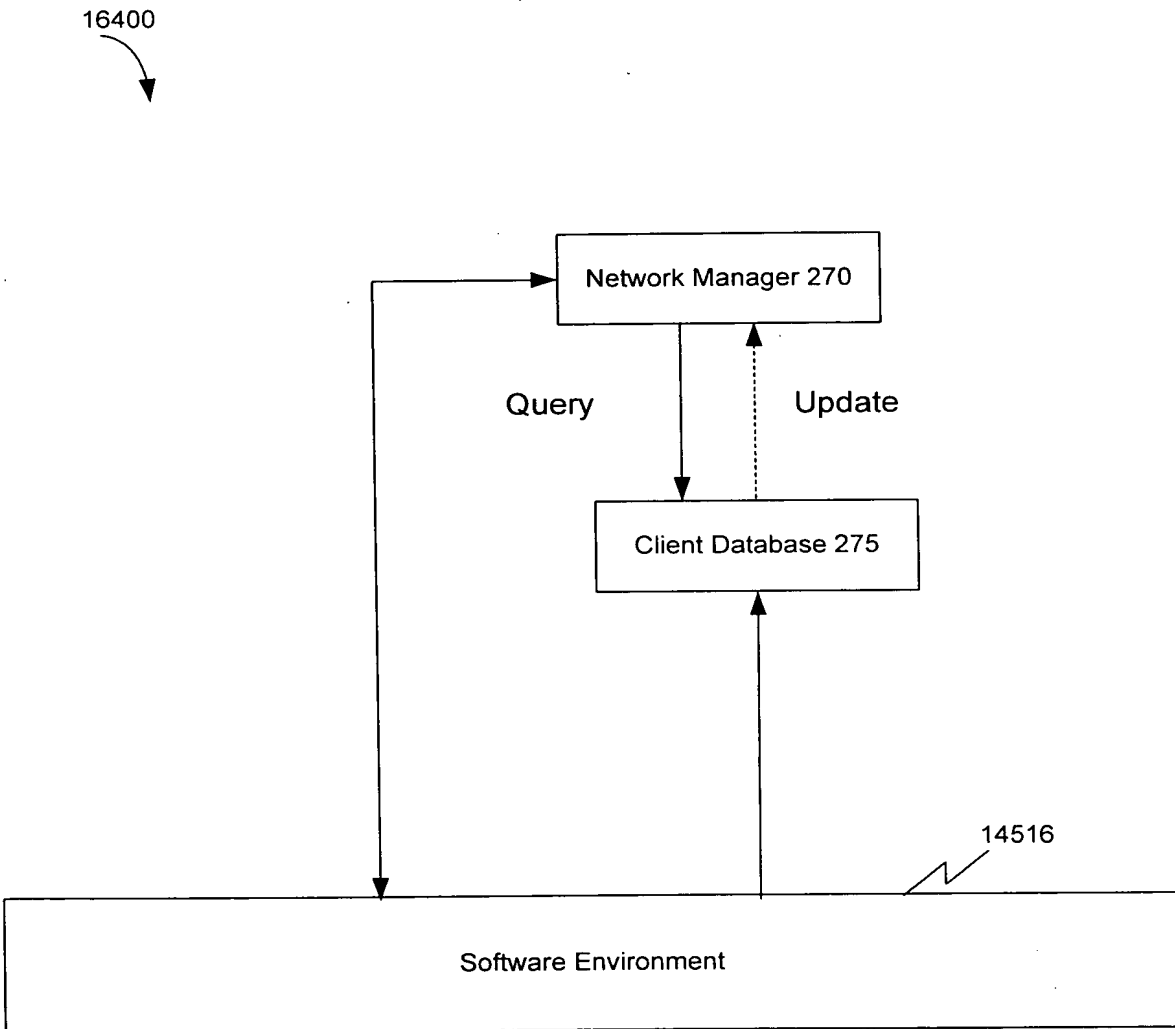


FIG. 164